



Open Source Used In AppDynamics_Cloud_Metric_Aggreg ation_Mapper_Service_Levitate 22.11.0-453

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide.
Addresses, phone numbers, and fax numbers

are listed on the Cisco website at
www.cisco.com/go/offices.

Text Part Number: 78EE117C99-1473584427

This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please submit this [form](#).

In your requests please include the following reference number 78EE117C99-1473584427

Contents

1.1 feign-jaxrs 8.18.0

1.1.1 Available under license

1.2 junit 4.13.2

1.2.1 Available under license

1.3 micronaut-views 3.2.0

1.3.1 Available under license

1.4 kotlin-libraries-bill-of-materials 1.6.10

1.4.1 Available under license

1.5 antlr 4.9.2

1.5.1 Available under license

1.6 kotlin-stdlib-common 1.6.10

1.6.1 Available under license

1.7 bean-validation-api 2.0.2

1.7.1 Available under license

1.8 feign-httpclient 8.18.0

1.8.1 Available under license

1.9 jdbc-sqlobject 3.27.2

1.9.1 Available under license

1.10 micronaut-serialization 1.0.1

1.10.1 Available under license

1.11 kafka-schema-serializer 5.5.5

1.11.1 Available under license

1.12 jackson-module-parameter-names 2.13.3

1.12.1 Available under license

1.13 java-servlet-api 4.0.1

1.13.1 Available under license

- 1.14 metrics---dropwizard v4.0.5**
 - 1.14.1 Available under license
- 1.15 slf4j-api-module 1.7.26**
 - 1.15.1 Available under license
- 1.16 annotations-for-metrics 4.1.29**
 - 1.16.1 Available under license
- 1.17 google-guice 4.2.2**
 - 1.17.1 Available under license
- 1.18 hibernate-validator 6.1.7.Final**
 - 1.18.1 Available under license
- 1.19 cloudevents---kafka-transport-binding 2.2.0**
 - 1.19.1 Available under license
- 1.20 apache-commons-text 1.10.0**
 - 1.20.1 Available under license
- 1.21 javax.inject:javax.inject 1**
 - 1.21.1 Available under license
- 1.22 docker-java 3.2.12**
 - 1.22.1 Available under license
- 1.23 google-gson 2.9.0**
 - 1.23.1 Available under license
- 1.24 micronaut-flyway 5.2.0**
 - 1.24.1 Available under license
- 1.25 cloudevents---core 2.2.0**
 - 1.25.1 Available under license
- 1.26 netty-tomcatnative-openssl-dynamic 2.0.48.Final**
 - 1.26.1 Available under license
- 1.27 micronaut 3.4.3**
 - 1.27.1 Available under license
- 1.28 java-architecture-for-xml-binding 2.3.3**
 - 1.28.1 Available under license
- 1.29 fabric8-::-kubernetes-model-::-coordination 4.10.3**
 - 1.29.1 Available under license
- 1.30 jakarta-dependency-injection 2.0.1**
 - 1.30.1 Available under license
- 1.31 fabric8-::-kubernetes-model-::-scheduling 4.10.3**
 - 1.31.1 Available under license
- 1.32 dropwizard-jdbi3-support 2.0.28**
 - 1.32.1 Available under license
- 1.33 protobuf-java-format 1.2**

- 1.33.1 Available under license
- 1.34 junit-jupiter-junit-jupiter-api 5.8.2**
 - 1.34.1 Available under license
- 1.35 io-grpc-grpc-api 1.39.0**
 - 1.35.1 Available under license
- 1.36 logback-access-module 1.2.9**
 - 1.36.1 Available under license
- 1.37 dropwizard-utility-classes 2.0.28**
 - 1.37.1 Available under license
- 1.38 io-grpc-grpc-protobuf-lite 1.39.0**
 - 1.38.1 Available under license
- 1.39 rocksdb-jni 6.6.4**
 - 1.39.1 Available under license
- 1.40 dropwizard-database-support 2.0.28**
 - 1.40.1 Available under license
- 1.41 io-grpc-grpc-protobuf 1.39.0**
 - 1.41.1 Available under license
- 1.42 micronaut-kubernetes 3.4.0**
 - 1.42.1 Available under license
- 1.43 netty/transport/classes/epoll 4.1.73.Final**
 - 1.43.1 Available under license
- 1.44 dropwizard-servlet-support 2.0.28**
 - 1.44.1 Available under license
- 1.45 resilience4j 1.7.1**
 - 1.45.1 Available under license
- 1.46 jetbrains-kotlin-kotlin-stdlib-jdk8 1.6.10**
 - 1.46.1 Available under license
- 1.47 micronaut-r2dbc 2.1.0**
 - 1.47.1 Available under license
- 1.48 jetbrains-kotlin-kotlin-stdlib-jdk7 1.6.10**
 - 1.48.1 Available under license
- 1.49 javassist 3.28.0**
 - 1.49.1 Available under license
- 1.50 lz4-and-xxhash 1.7.1**
 - 1.50.1 Available under license
- 1.51 feign-slf4j 8.18.0**
 - 1.51.1 Available under license
- 1.52 jackson-datatype-jsr310 2.13.3**
 - 1.52.1 Available under license

1.53 fabric8--kubernetes-model--batch 4.10.3

1.53.1 Available under license

1.54 disruptor-framework 3.3.6

1.54.1 Available under license

1.55 snappy-java 1.1.8.1

1.55.1 Available under license

1.56 apache-zookeeper-jute 3.8.0

1.56.1 Available under license

1.57 dropwizard-lifecycle-support 2.0.28

1.57.1 Available under license

1.58 javassist rel_3_25_0_ga

1.58.1 Available under license

1.59 scala-collection-compat 2.3.0

1.59.1 Available under license

1.60 elasticsearch-kubernetes-cloud-plugin 4.10.3

1.60.1 Available under license

1.61 swagger-jaxrs2 2.1.6

1.61.1 Available under license

1.62 fabric8--kubernetes-model--discovery 4.10.3

1.62.1 Available under license

1.63 micronaut-sql-libraries 4.2.2

1.63.1 Available under license

1.64 checker-qual 3.15.0

1.64.1 Available under license

1.65 okhttp 3.12.12

1.65.1 Available under license

1.66 spock-framework---bill-of-materials 2.0-groovy-3.0

1.66.1 Available under license

1.67 config 5.5.5

1.67.1 Available under license

1.68 fabric8--kubernetes-model--admission-registration,-authentication-and-authorization 4.10.3

1.68.1 Available under license

1.69 lettuce 6.1.6.RELEASE

1.69.1 Available under license

1.70 apiguardian-apiguardian-api 1.1.0

1.70.1 Available under license

1.71 mockito 2.27.0

1.71.1 Available under license

- 1.72 micrometer-bom 1.8.3**
 - 1.72.1 Available under license
- 1.73 guava 30.1.1-jre**
 - 1.73.1 Available under license
- 1.74 generex 1.0.2**
 - 1.74.1 Available under license
- 1.75 fabric8-kubernetes-model-policy 4.10.3**
 - 1.75.1 Available under license
- 1.76 better-files 3.9.1**
 - 1.76.1 Available under license
- 1.77 kqueue 4.1.76.Final**
 - 1.77.1 Available under license
- 1.78 javax-inject1-as-osgi-bundle 2.6.1**
 - 1.78.1 Available under license
- 1.79 checker-qual 3.10.0**
 - 1.79.1 Available under license
- 1.80 jdbc3-core 3.27.2**
 - 1.80.1 Available under license
- 1.81 micrometer-metrics/micrometer 1.9.0**
 - 1.81.1 Available under license
- 1.82 jcommander-library 1.72**
 - 1.82.1 Available under license
- 1.83 jackson-annotations 2.13.3**
 - 1.83.1 Available under license
- 1.84 vavr 0.10.2**
 - 1.84.1 Available under license
- 1.85 jersey-media-jaxb 2.31**
 - 1.85.1 Available under license
- 1.86 config-com-typesafe-config 1.3.3**
 - 1.86.1 Available under license
- 1.87 opentelemetry-java 1.14.0-alpha**
 - 1.87.1 Available under license
- 1.88 ktor-bom 1.6.1**
 - 1.88.1 Available under license
- 1.89 kafka-protobuf-provider 5.5.5**
 - 1.89.1 Available under license
- 1.90 micronaut-aws 3.2.3**
 - 1.90.1 Available under license
- 1.91 io-swagger-swagger-annotations 2.1.12**

- 1.91.1 Available under license
- 1.92 wire-schema 3.7.0**
 - 1.92.1 Available under license
- 1.93 bom 4.1.76.Final**
 - 1.93.1 Available under license
- 1.94 testcontainers-core 1.16.2**
 - 1.94.1 Available under license
- 1.95 jackson-datatype-joda 2.13.3**
 - 1.95.1 Available under license
- 1.96 micronaut-security 3.5.0**
 - 1.96.1 Available under license
- 1.97 jmes-path-query-library 1.12.192**
 - 1.97.1 Available under license
- 1.98 hamcrest 1.3**
 - 1.98.1 Available under license
- 1.99 archaius-core 0.7.6**
 - 1.99.1 Available under license
- 1.100 guava-internalfuturefailureaccess-and-internalfutures 1.0.1**
 - 1.100.1 Available under license
- 1.101 fabric8-::-kubernetes-model-::-api-extensions 4.10.3**
 - 1.101.1 Available under license
- 1.102 hystrix-serialization 1.5.18**
 - 1.102.1 Available under license
- 1.103 akka-parsing 10.1.12**
 - 1.103.1 Available under license
- 1.104 opentracing-api 0.31.0**
 - 1.104.1 Available under license
- 1.105 jersey-inject-hk2 2.35**
 - 1.105.1 Available under license
- 1.106 rxjava 1.3.8**
 - 1.106.1 Available under license
- 1.107 zjsonpatch 0.3.0**
 - 1.107.1 Available under license
- 1.108 jackson-datatype-guava 2.13.3**
 - 1.108.1 Available under license
- 1.109 jackson-integration-for-metrics 4.1.29**
 - 1.109.1 Available under license
- 1.110 fabric8-::-kubernetes-model-::-settings 4.10.3**
 - 1.110.1 Available under license

- 1.111 netty/transport/classes/kqueue 4.1.76.Final**
 - 1.111.1 Available under license
- 1.112 junit-platform-junit-platform-commons 1.8.2**
 - 1.112.1 Available under license
- 1.113 kafka-protobuf-serializer 5.5.5**
 - 1.113.1 Available under license
- 1.114 testng 6.14.3**
- 1.115 jersey-ext-metainf-services 2.33**
 - 1.115.1 Available under license
- 1.116 metrics-utility-servlets 4.0.5**
 - 1.116.1 Available under license
- 1.117 leveldb 0.12**
 - 1.117.1 Available under license
- 1.118 project-lombok 1.18.8**
 - 1.118.1 Available under license
- 1.119 jakarta-expression-language-3.0-implementation 4.0.2**
 - 1.119.1 Available under license
- 1.120 apache-groovy 3.0.10**
 - 1.120.1 Available under license
- 1.121 rxjava 2.2.21**
 - 1.121.1 Available under license
- 1.122 fabric8-::-kubernetes-model-::-certificates 4.10.3**
 - 1.122.1 Available under license
- 1.123 geantyref 1.3.13**
 - 1.123.1 Available under license
- 1.124 unboundid-scim2-sdk-common 2.3.6**
 - 1.124.1 Available under license
- 1.125 kafka-schema-registry-client 5.5.5**
 - 1.125.1 Available under license
- 1.126 launchdarkly-sdk-for-java 5.7.1**
 - 1.126.1 Available under license
- 1.127 jakarta-ws-rs-api 2.1.6**
 - 1.127.1 Available under license
- 1.128 jersey-core-server 2.35**
 - 1.128.1 Available under license
- 1.129 micronaut-reactor 2.2.2**
 - 1.129.1 Available under license
- 1.130 javax-annotation-api 1.3.2**
 - 1.130.1 Available under license

- 1.131 hk2-implementation-utilities 2.6.1**
 - 1.131.1 Available under license
- 1.132 apache-log4j-api 2.17.1**
 - 1.132.1 Available under license
- 1.133 dropwizard-request-logging-support 2.0.28**
 - 1.133.1 Available under license
- 1.134 netty-tomcatnative-openssl-dynamic 2.0.51.Final**
 - 1.134.1 Available under license
- 1.135 jersey-media-json-jackson 2.35**
 - 1.135.1 Available under license
- 1.136 netty/tomcatnative-[openssl---classes] 2.0.51.Final**
 - 1.136.1 Available under license
- 1.137 reactive-relational-database-connectivity-bill-of-materials Arabba-SR11**
 - 1.137.1 Available under license
- 1.138 hystrix-codahale-metrics-publisher 1.5.18**
 - 1.138.1 Available under license
- 1.139 io-projectreactor 3.4.18**
 - 1.139.1 Available under license
- 1.140 dropwizard-metrics-support 2.0.28**
 - 1.140.1 Available under license
- 1.141 micronaut-groovy 3.1.0**
 - 1.141.1 Available under license
- 1.142 opentelemetry 1.14.0**
 - 1.142.1 Available under license
- 1.143 apache-httpmime 4.5.13**
 - 1.143.1 Available under license
- 1.144 javax-ws-rs-api 2.0.1**
 - 1.144.1 Available under license
- 1.145 tomcat 10.0.8**
 - 1.145.1 Available under license
- 1.146 okhttp-logging-interceptor 3.12.12**
 - 1.146.1 Available under license
- 1.147 asm 7.2**
 - 1.147.1 Available under license
- 1.148 appdynamics-java-agent-api 4.5.13.27526**
 - 1.148.1 Available under license
- 1.149 asm-commons 7.2**
 - 1.149.1 Available under license
- 1.150 dropwizard-jersey-support 2.0.28**

- 1.150.1 Available under license
- 1.151 latencyutils 2.0.3**
 - 1.151.1 Available under license
- 1.152 scala-logging_2.12 3.9.2**
 - 1.152.1 Available under license
- 1.153 kotlinox-coroutines-bom 1.5.1**
 - 1.153.1 Available under license
- 1.154 scala-parser-combinators 1.1.2**
 - 1.154.1 Available under license
- 1.155 micronaut-micrometer 4.3.0**
 - 1.155.1 Available under license
- 1.156 jackson-module-afterburner 2.13.3**
 - 1.156.1 Available under license
- 1.157 hk2-api-module 2.6.1**
 - 1.157.1 Available under license
- 1.158 metrics-jetty 4.0.5**
 - 1.158.1 Available under license
- 1.159 metrics-utility-servlets 4.1.29**
 - 1.159.1 Available under license
- 1.160 jackson-xc 2.13.3**
 - 1.160.1 Available under license
- 1.161 netty-transport-native-unix-common 4.1.73.Final**
 - 1.161.1 Available under license
- 1.162 netty-transport-native-unix-common 4.1.76.Final**
 - 1.162.1 Available under license
- 1.163 couchbase-java-sdk 2.7.18**
 - 1.163.1 Available under license
- 1.164 jackson-dataformat-csv 2.13.3**
 - 1.164.1 Available under license
- 1.165 jersey-ext-entity-filtering 2.35**
 - 1.165.1 Available under license
- 1.166 osgi-resource-locator-bundle 1.0.3**
 - 1.166.1 Available under license
- 1.167 apache-commons-pool 2.4.3**
 - 1.167.1 Available under license
- 1.168 metrics-integration-for-jdbi3 4.1.29**
 - 1.168.1 Available under license
- 1.169 curator-testing 4.2.0**
 - 1.169.1 Available under license

- 1.170 feign-core 8.18.0**
 - 1.170.1 Available under license
- 1.171 io-grpc-grpc-context 1.39.0**
 - 1.171.1 Available under license
- 1.172 testcontainers-bom 1.16.2**
 - 1.172.1 Available under license
- 1.173 apache-commons-cli 1.4**
 - 1.173.1 Available under license
- 1.174 archaius-core 0.4.1**
 - 1.174.1 Available under license
- 1.175 protocol-buffers-[bom] 3.17.2**
 - 1.175.1 Available under license
- 1.176 jetty-java-based-http-1-x-http-2-servlet-websocket-server 9.4.45.v20220203**
 - 1.176.1 Available under license
- 1.177 azure-java-sdk-bom-(bill-of-materials) 1.1.1**
 - 1.177.1 Available under license
- 1.178 jackson-core 2.13.3**
 - 1.178.1 Available under license
- 1.179 jcl-1-2-implemented-over-slf4j 1.7.32**
 - 1.179.1 Available under license
- 1.180 fabric8-::-kubernetes-model-::-core 4.10.3**
 - 1.180.1 Available under license
- 1.181 micronaut-data 3.3.0**
 - 1.181.1 Available under license
- 1.182 servicelocator-default-implementation 2.6.1**
 - 1.182.1 Available under license
- 1.183 micronaut-mqtt 2.1.0**
 - 1.183.1 Available under license
- 1.184 apache-httpcomponents-asyncclient 4.1.4**
 - 1.184.1 Available under license
- 1.185 j2objc-annotations 1.3**
 - 1.185.1 Available under license
- 1.186 jersey's-jersey 2.35**
 - 1.186.1 Available under license
- 1.187 jul-to-slf4j-bridge 1.7.32**
 - 1.187.1 Available under license
- 1.188 micronaut-micrometer 4.2.1**
 - 1.188.1 Available under license
- 1.189 joda-time v2.10.8**

- 1.189.1 Available under license
- 1.190 akka-http-core 10.1.12**
 - 1.190.1 Available under license
- 1.191 javabeans-activation-framework-api 1.2.0**
 - 1.191.1 Available under license
- 1.192 bucket4j-core 4.4.1**
 - 1.192.1 Available under license
- 1.193 software-amazon-ion-ion-java 1.0.2**
 - 1.193.1 Available under license
- 1.194 s3mock 0.2.6**
 - 1.194.1 Available under license
- 1.195 jdbi-guava-integration 3.25.0**
 - 1.195.1 Available under license
- 1.196 micronaut-oracle-cloud 2.1.1**
 - 1.196.1 Available under license
- 1.197 protocol-buffer-java-util-package 3.19.4**
 - 1.197.1 Available under license
- 1.198 akka-actor 2.5.31**
 - 1.198.1 Available under license
- 1.199 fabric8-::-openshift-model 4.10.3**
 - 1.199.1 Available under license
- 1.200 junit-platform-junit-platform-engine 1.8.2**
 - 1.200.1 Available under license
- 1.201 bean-validation-api 2.0.1**
 - 1.201.1 Available under license
- 1.202 caffeine-cache 2.9.1**
 - 1.202.1 Available under license
- 1.203 argparse 0.7.0**
 - 1.203.1 Available under license
- 1.204 fabric8-::-kubernetes-model-::-networking 4.10.3**
 - 1.204.1 Available under license
- 1.205 apache-kafka 2.8.1**
 - 1.205.1 Available under license
- 1.206 apache-commons-configuration 1.8**
 - 1.206.1 Available under license
- 1.207 byte-buddy byte-buddy-1.9.10**
 - 1.207.1 Available under license
- 1.208 jersey-container-servlet 2.35**
 - 1.208.1 Available under license

- 1.209 jackson-datatype-jdk8 2.13.3**
 - 1.209.1 Available under license
- 1.210 fabric8--kubernetes-model--metrics 4.10.3**
 - 1.210.1 Available under license
- 1.211 resilience4j 0.13.1**
 - 1.211.1 Available under license
- 1.212 swagger-core 2.1.12**
 - 1.212.1 Available under license
- 1.213 jersey-ext-bean-validation 2.33**
 - 1.213.1 Available under license
- 1.214 vavr-match 0.10.2**
 - 1.214.1 Available under license
- 1.215 jdbi3-bom 3.20.1**
 - 1.215.1 Available under license
- 1.216 beanshell 2.0b6**
 - 1.216.1 Available under license
- 1.217 aop-alliance 1.0**
 - 1.217.1 Available under license
- 1.218 metrics-core-library 2.2.0**
 - 1.218.1 Available under license
- 1.219 micronaut-rxjava-3 2.2.1**
 - 1.219.1 Available under license
- 1.220 jedis jedis-3.0.1**
 - 1.220.1 Available under license
- 1.221 dropwizard-jetty-support 2.0.28**
 - 1.221.1 Available under license
- 1.222 jdbi-joda-time-integration 3.25.0**
 - 1.222.1 Available under license
- 1.223 snake-yaml 1.30**
 - 1.223.1 Available under license
- 1.224 micronaut-test 3.0.5**
 - 1.224.1 Available under license
- 1.225 apache-log4j 2.17.1**
 - 1.225.1 Available under license
- 1.226 docker-java-transport 3.2.12**
 - 1.226.1 Available under license
- 1.227 java-architecture-for-xml-binding 2.4.0-b180830.0359**
 - 1.227.1 Available under license
- 1.228 apache-avro 1.11.0**

- 1.228.1 Available under license
- 1.229 jetbrains-annotations 13.0**
 - 1.229.1 Available under license
- 1.230 log4j-over-slf4j 1.7.32**
 - 1.230.1 Available under license
- 1.231 wire-multiplatform-runtime-(experimental) 3.7.0**
 - 1.231.1 Available under license
- 1.232 jackson-dataformat-yaml 2.13.3**
 - 1.232.1 Available under license
- 1.233 netty/tomcatnative-[openssl---classes] 2.0.48.Final**
 - 1.233.1 Available under license
- 1.234 fabric8-:::-kubernetes-model-:::-autoscaling 4.10.3**
 - 1.234.1 Available under license
- 1.235 metrics-integration-with-jmx 4.1.29**
 - 1.235.1 Available under license
- 1.236 micronaut-gcp 4.1.1**
 - 1.236.1 Available under license
- 1.237 protobuf-java 3.19.4**
 - 1.237.1 Available under license
- 1.238 micronaut-rxjava-2 1.2.1**
 - 1.238.1 Available under license
- 1.239 netty-project 4.1.73.Final**
 - 1.239.1 Available under license
- 1.240 jna 5.7.0**
 - 1.240.1 Available under license
- 1.241 jackson-bom 2.13.2**
 - 1.241.1 Available under license
- 1.242 jakarta-annotations-api 2.0.0**
 - 1.242.1 Available under license
- 1.243 io-projectreactor 3.4.15**
 - 1.243.1 Available under license
- 1.244 metrics-integration-for-apache-httpasyncclient 4.0.5**
 - 1.244.1 Available under license
- 1.245 micronaut 3.5.0**
 - 1.245.1 Available under license
- 1.246 aws-java-sdk 1.12.192**
 - 1.246.1 Available under license
- 1.247 apache-commons-lang 2.6**
 - 1.247.1 Available under license

- 1.248 jersey-container-servlet-core 2.35**
 - 1.248.1 Available under license
- 1.249 error_prone_annotations 2.5.1**
 - 1.249.1 Available under license
- 1.250 logback-core 1.2.11**
 - 1.250.1 Available under license
- 1.251 jackson-bom 2.13.3**
 - 1.251.1 Available under license
- 1.252 animal-sniffer-annotation 1.19**
 - 1.252.1 Available under license
- 1.253 micronaut-problem-json 2.2.3**
 - 1.253.1 Available under license
- 1.254 couchbase-jvm-core-io 1.7.18**
 - 1.254.1 Available under license
- 1.255 commons-codec 1.15**
 - 1.255.1 Available under license
- 1.256 google-android-annotations-library 4.1.1.4**
 - 1.256.1 Available under license
- 1.257 jvm-integration-for-metrics 4.1.29**
 - 1.257.1 Available under license
- 1.258 jsr311-api 1.1.1**
 - 1.258.1 Available under license
- 1.259 opentest4j-opentest4j 1.2.0**
 - 1.259.1 Available under license
- 1.260 ssl-config-core 0.3.8**
 - 1.260.1 Available under license
- 1.261 commons-logging 1.2**
 - 1.261.1 Available under license
- 1.262 metrics-integration-with-jmx 4.0.5**
 - 1.262.1 Available under license
- 1.263 jopt-simple 5.0.4**
 - 1.263.1 Available under license
- 1.264 metrics-core 4.0.5**
 - 1.264.1 Available under license
- 1.265 jackson-module:-guice 2.13.3**
 - 1.265.1 Available under license
- 1.266 okio 2.8.0**
 - 1.266.1 Available under license
- 1.267 jackson-integration-for-metrics 4.0.5**

- 1.267.1 Available under license
- 1.268 javabeans-activation-framework-api 1.2.2**
 - 1.268.1 Available under license
- 1.269 dropwizard-configuration-support 2.0.28**
 - 1.269.1 Available under license
- 1.270 joda-time 2.10.13**
 - 1.270.1 Available under license
- 1.271 scala 2.12.15**
 - 1.271.1 Available under license
- 1.272 utils 5.5.5**
 - 1.272.1 Available under license
- 1.273 opentelemetry---io.opentelemetry:opentelemetry-proto 1.6.0-alpha**
 - 1.273.1 Available under license
- 1.274 swagger-models 2.1.12**
 - 1.274.1 Available under license
- 1.275 fabric8--:-kubernetes-model--:-extensions 4.10.3**
 - 1.275.1 Available under license
- 1.276 jacoco 0.8.5**
 - 1.276.1 Available under license
- 1.277 micronaut-kotlin-integrations 3.2.2**
 - 1.277.1 Available under license
- 1.278 zookeeper 3.8.0**
 - 1.278.1 Available under license
- 1.279 java-vault-driver 5.1.0**
 - 1.279.1 Available under license
- 1.280 throttling-appender 1.1.7**
 - 1.280.1 Available under license
- 1.281 jakarta-expression-language-3.0-api 5.0.0-RC1**
 - 1.281.1 Available under license
- 1.282 jul-to-slf4j-bridge 1.7.26**
 - 1.282.1 Available under license
- 1.283 micronaut-cache 3.3.0**
 - 1.283.1 Available under license
- 1.284 byte-buddy-agent 1.9.10**
 - 1.284.1 Available under license
- 1.285 fabric8--:-kubernetes-model--:-rbac 4.10.3**
 - 1.285.1 Available under license
- 1.286 metrics-jetty 4.1.29**
 - 1.286.1 Available under license

- 1.287 metrics-health-checks 4.1.29**
 - 1.287.1 Available under license
- 1.288 apache-commons-lang 3.8.1**
 - 1.288.1 Available under license
- 1.289 trove-for-java 3.0.3**
 - 1.289.1 Available under license
- 1.290 kafka-streams-avro-serde 5.5.5**
 - 1.290.1 Available under license
- 1.291 jackson-dataformats-binary 2.13.3**
 - 1.291.1 Available under license
- 1.292 objenesis 2.6**
 - 1.292.1 Available under license
- 1.293 micronaut-test 3.1.1**
 - 1.293.1 Available under license
- 1.294 google-api-grpc-proto-google-common-protos 2.0.1**
 - 1.294.1 Available under license
- 1.295 scala-java8-compat_2.12 0.9.1**
 - 1.295.1 Available under license
- 1.296 junit-jupiter-junit-jupiter-engine 5.8.2**
 - 1.296.1 Available under license
- 1.297 jboss-logging 3.3.2.Final**
 - 1.297.1 Available under license
- 1.298 kafka-avro-serializer 5.5.5**
 - 1.298.1 Available under license
- 1.299 dropwizard-logging-support 2.0.28**
 - 1.299.1 Available under license
- 1.300 google-guice 4.2.3**
 - 1.300.1 Available under license
- 1.301 fabric8-::-kubernetes-model-::-apps 4.10.3**
 - 1.301.1 Available under license
- 1.302 apache-httpcomponents-core 4.4.13**
 - 1.302.1 Available under license
- 1.303 metrics-health-checks 4.1.11**
 - 1.303.1 Available under license
- 1.304 wire-protocol-buffer-runtime 3.7.0**
 - 1.304.1 Available under license
- 1.305 micronaut-azure 3.2.3**
 - 1.305.1 Available under license
- 1.306 dropwizard 2.0.28**

- 1.306.1 Available under license
- 1.307 jdbc3-jackson2 3.27.2**
 - 1.307.1 Available under license
- 1.308 micronaut-email 1.2.1**
 - 1.308.1 Available under license
- 1.309 apache-kafka 2.8.1**
 - 1.309.1 Available under license
- 1.310 perfmark-perfmark-api 0.23.0**
 - 1.310.1 Available under license
- 1.311 commons-compress 1.21**
 - 1.311.1 Available under license
- 1.312 jvm-integration-for-metrics 4.0.5**
 - 1.312.1 Available under license
- 1.313 junit-5-bill-of-materials 5.8.2**
 - 1.313.1 Available under license
- 1.314 io-grpc-grpc-core 1.39.0**
 - 1.314.1 Available under license
- 1.315 micronaut-tracing 4.1.1**
 - 1.315.1 Available under license
- 1.316 opentelemetry-java 1.9.1-alpha**
 - 1.316.1 Available under license
- 1.317 open-telemetry/opentelemetry-java 1.14.0**
 - 1.317.1 Available under license
- 1.318 opentelemetry-java---io.opentelemetry:opentelemetry-sdk-metrics 1.14.0**
 - 1.318.1 Available under license
- 1.319 duct-tape 1.0.8**
 - 1.319.1 Available under license
- 1.320 io.grpc:grpc-bom 1.39.0**
 - 1.320.1 Available under license
- 1.321 metrics-core 4.1.29**
 - 1.321.1 Available under license
- 1.322 hystrix-core 1.5.18**
 - 1.322.1 Available under license
- 1.323 micronaut-redis 5.2.0**
 - 1.323.1 Available under license
- 1.324 jackson-databind 2.13.3**
 - 1.324.1 Available under license
- 1.325 com.helger:profiler 1.1.1**
 - 1.325.1 Available under license

- 1.326 rxjersey 0.9.0**
 - 1.326.1 Available under license
- 1.327 hdrhistogram 2.1.12**
 - 1.327.1 Available under license
- 1.328 profiler 1.0.2**
 - 1.328.1 Available under license
- 1.329 scala 2.12.13**
 - 1.329.1 Available under license
- 1.330 jackson-module-scala 2.13.3**
 - 1.330.1 Available under license
- 1.331 docker-java-transport-zero-dep 3.2.12**
 - 1.331.1 Available under license
- 1.332 commons-io 2.11.0**
 - 1.332.1 Available under license
- 1.333 jackson-jaxrs-base 2.13.3**
 - 1.333.1 Available under license
- 1.334 java-classmate classmate-1.5.1**
 - 1.334.1 Available under license
- 1.335 classgraph 4.8.65**
 - 1.335.1 Available under license
- 1.336 micronaut-servlet 3.2.2**
 - 1.336.1 Available under license
- 1.337 asm-tree 7.2**
 - 1.337.1 Available under license
- 1.338 zstd-jni 1.4.9-1**
 - 1.338.1 Available under license
- 1.339 kotlin 1.6.10**
 - 1.339.1 Available under license
- 1.340 akka-protobuf 2.5.31**
 - 1.340.1 Available under license
- 1.341 jdbi3-json 3.27.2**
 - 1.341.1 Available under license
- 1.342 reactive-streams v1.0.3**
 - 1.342.1 Available under license
- 1.343 apache-kafka 2.8.1**
 - 1.343.1 Available under license
- 1.344 dropwizard-validation-support 2.0.28**
 - 1.344.1 Available under license
- 1.345 cloudevents---api 2.2.0**

- 1.345.1 Available under license
- 1.346 paranamer-core 2.8**
 - 1.346.1 Available under license
- 1.347 apache-http-client 4.5.13**
 - 1.347.1 Available under license
- 1.348 scala-xml 1.3.0**
 - 1.348.1 Available under license
- 1.349 hk2-guice-bridge 2.5.0**
 - 1.349.1 Available under license
- 1.350 io-grpc-grpc-netty 1.39.0**
 - 1.350.1 Available under license
- 1.351 automation 1.11-8**
 - 1.351.1 Available under license
- 1.352 feign-jackson 8.18.0**
 - 1.352.1 Available under license
- 1.353 metrics-integration-for-logback 4.1.29**
 - 1.353.1 Available under license
- 1.354 hystrix-metrics-event-stream 1.5.18**
 - 1.354.1 Available under license
- 1.355 caffeine-cache 3.0.3**
 - 1.355.1 Available under license
- 1.356 zip4j 2.10.0**
 - 1.356.1 Available under license
- 1.357 fabric8-::-kubernetes-model-::-common 4.10.3**
 - 1.357.1 Available under license
- 1.358 netty/transport/classes/epoll 4.1.76.Final**
 - 1.358.1 Available under license
- 1.359 akka-http 10.1.12**
 - 1.359.1 Available under license
- 1.360 testcontainers-::-apache-kafka 1.16.0**
 - 1.360.1 Available under license
- 1.361 error_prone_annotations 2.7.1**
 - 1.361.1 Available under license
- 1.362 fabric8-::-kubernetes-model-::-events 4.10.3**
 - 1.362.1 Available under license
- 1.363 micronaut-coherence 3.0.1**
 - 1.363.1 Available under license
- 1.364 dropwizard-jackson-support 2.0.28**
 - 1.364.1 Available under license

1.365 apache-yetus-audience-annotations 0.12.0

1.365.1 Available under license

1.366 guava-listenablefuture-only 9999.0-empty-to-avoid-conflict-with-guava

1.366.1 Available under license

1.367 akka-stream 2.5.31

1.367.1 Available under license

1.368 swagger-integration 2.1.6

1.368.1 Available under license

1.369 io-swagger-swagger-annotations 1.6.2

1.369.1 Available under license

1.370 jetty-toolchain 1.0.4

1.370.1 Available under license

1.371 metrics-integration-for-jersey-2.x 4.1.29

1.371.1 Available under license

1.372 jackson-jaxrs 2.13.3

1.372.1 Available under license

1.373 okhttp 4.9.3

1.373.1 Available under license

1.374 leveldb-api 0.12

1.374.1 Available under license

1.375 okio 2.8.0

1.375.1 Available under license

1.376 apache-log4j-slf4j-binding 2.17.1

1.376.1 Available under license

1.377 fabric8-::-kubernetes-model-::-storage-class 4.10.3

1.377.1 Available under license

1.378 micronaut-mongodb 4.1.0

1.378.1 Available under license

1.379 java-servlet-api 4.0.4

1.379.1 Available under license

1.380 netty-project 4.1.76.Final

1.380.1 Available under license

1.381 asm-analysis 7.2

1.381.1 Available under license

1.382 findbugs-jsr305 3.0.2

1.382.1 Available under license

1.383 argparse 0.8.1

1.383.1 Available under license

1.1 feign-jaxrs 8.18.0

1.1.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2013 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1274698784_1645233710.69/0/feign-jaxrs-8-18-0-sources-jar/feign/jaxrs/JAXRSContract.java

1.2 junit 4.13.2

1.2.1 Available under license :

JUnit

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
 - i) changes to the Program, and
 - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to

allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,

STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year

after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

1.3 micronaut-views 3.2.0

1.3.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
# Licensed under the Apache License, Version 2.0 (the "License");  
# you may not use this file except in compliance with the License.  
# You may obtain a copy of the License at  
# distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-image/io.micronaut.views.model.security/native-image.properties  
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-image/io.micronaut.views.csp/native-image.properties
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2017-2020 original authors
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* https://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/package-info.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/View.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfigurationProperties.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspConfiguration.java
```

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspFilter.java
```

* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ModelAndView.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/ViewModelProcessor.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewUtils.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsRenderer.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessor.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfiguration.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/package-info.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/package-info.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfigurationProperties.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/ViewRenderingException.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/package-info.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/package-info.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/ViewNotFoundException.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfiguration.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-

```
jar/io/micronaut/views/ViewsFilter.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsResolver.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsRendererLocator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsResolver.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererKey.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererLocator.java
```

1.4 kotlin-libraries-bill-of-materials 1.6.10

1.4.1 Available under license :

The version of Rhino used in GWT is licensed under a dual license,
Netscape Public License 1.1 / GNU General Public License.
The text of the Netscape Public License
is provided below (<http://website-archive.mozilla.org/www.mozilla.org/mpl/MPL/NPL/1.1/>):

AMENDMENTS

The Netscape Public License Version 1.1 ("NPL") consists of the
Mozilla Public License Version 1.1 with the following Amendments,
including Exhibit A-Netscape Public License. Files identified with
"Exhibit A-Netscape Public License" are governed by the Netscape
Public License Version 1.1.

Additional Terms applicable to the Netscape Public License.

I. Effect.

These additional terms described in this Netscape Public
License -- Amendments shall apply to the Mozilla Communicator
client code and to all Covered Code under this License.

II. "Netscape's Branded Code" means Covered Code that Netscape
distributes and/or permits others to distribute under one or
more trademark(s) which are controlled by Netscape but which
are not licensed for use under this License.

III. Netscape and logo.

This License does not grant any rights to use the trademarks "Netscape", the "Netscape N and horizon" logo or the "Netscape lighthouse" logo, "Netcenter", "Gecko", "Java" or "JavaScript", "Smart Browsing" even if such marks are included in the Original Code or Modifications.

IV. Inability to Comply Due to Contractual Obligation.

Prior to licensing the Original Code under this License, Netscape has licensed third party code for use in Netscape's Branded Code. To the extent that Netscape is limited contractually from making such third party code available under this License, Netscape may choose to reintegrate such code into Covered Code without being required to distribute such code in Source Code form, even if such code would otherwise be considered "Modifications" under this License.

V. Use of Modifications and Covered Code by Initial Developer.

V.1. In General.

The obligations of Section 3 apply to Netscape, except to the extent specified in this Amendment, Section V.2 and V.3.

V.2. Other Products.

Netscape may include Covered Code in products other than the Netscape's Branded Code which are released by Netscape during the two (2) years following the release date of the Original Code, without such additional products becoming subject to the terms of this License, and may license such additional products on different terms from those contained in this License.

V.3. Alternative Licensing.

Netscape may license the Source Code of Netscape's Branded Code, including Modifications incorporated therein, without such Netscape Branded Code becoming subject to the terms of this License, and may license such Netscape Branded Code on different terms from those contained in this License.

VI. Litigation.

Notwithstanding the limitations of Section 11 above, the provisions regarding litigation in Section 11(a), (b) and (c)

of the License shall apply to all disputes relating to this License.

EXHIBIT A-Netscape Public License.

"The contents of this file are subject to the Netscape Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/NPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is Mozilla Communicator client code, released March 31, 1998.

The Initial Developer of the Original Code is Netscape Communications Corporation. Portions created by Netscape are Copyright (C) 1998-1999 Netscape Communications Corporation. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the [____] License), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [____] License and not to allow others to use your version of this file under the NPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [____] License. If you do not delete the provisions above, a recipient may use your version of this file under either the NPL or the [____] License."

MOZILLA PUBLIC LICENSE

Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the

Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release

under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are

effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third

party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by

You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited

by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE

OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version

directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed

by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as Multiple-Licensed. Multiple-Licensed means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the NPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is _____.

The Initial Developer of the Original Code is
_____. Portions created by
_____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the [_____] License), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [_____] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [_____] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [_____] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

=====

SDL 2.0 and newer are available under the zlib license :

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2021, Daniel Stenberg, <daniel@haxx.se>, and many contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

=====
libc++ License
=====

The libc++ library is dual licensed under both the University of Illinois "BSD-Like" license and the MIT license. As a user of this code you may choose to use it under either license. As a contributor, you agree to allow your code to be used under both.

Full text of the relevant licenses is included below.

=====
University of Illinois/NCSA
Open Source License

Copyright (c) 2009-2017 by the contributors listed in CREDITS.TXT

All rights reserved.

Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.
- * Neither the names of the LLVM Team, University of Illinois at Urbana-Champaign, nor the names of its contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

=====

Copyright (c) 2009-2014 by the contributors listed in CREDITS.TXT

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

=====
=====

APACHE HARMONY SUBCOMPONENTS:

Apache Harmony includes a number of subcomponents with separate
copyright notices and license terms. Your use of the source code
for these subcomponents is subject to the terms and conditions
of the following licenses.

License Notice for ICU4C version 3.4

=====

ICU License - ICU 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2005 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

=====
License Notice for ICU4J version 4.2.1
=====

ICU4J license - ICU4J 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2009 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

=====
License Notice for FDLIBM version 5.2
=====

Copyright (C) 2004 by Sun Microsystems, Inc. All rights reserved.

Developed at SunSoft, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

=====
License Notice for ZLIB version 1.2.3
=====

(C) 1995-2004 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages

arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

=====
 =====

Visual C++ Runtime Files

=====

The file msvc71.dll is the Microsoft(R) C Runtime Library.
 The file msvcp71.dll is the Microsoft Multithreaded Standard C++ Library.

These files are redistributed from Microsoft(R) Visual Studio 7.1 as described in the file "redist.txt" available with that product.

=====
 =====

License Notice for Bouncy Castle version 1.45

=====

Copyright (c) 2000 - 2009 The Legion Of The Bouncy Castle (<http://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use,

copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====
=====

License Notice for MX4J 3.0.2.
=====

The MX4J License, Version 1.0

Copyright (c) 2001-2004 by the MX4J contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:
"This product includes software developed by the
MX4J project (<http://mx4j.sourceforge.net>)."
Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The name "MX4J" must not be used to endorse or promote

products derived from this software without prior written permission.

For written permission, please contact
biorn_steedom [at] users [dot] sourceforge [dot] net

5. Products derived from this software may not be called "MX4J", nor may "MX4J" appear in their name, without prior written permission of Simone Bordet.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE MX4J CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

This software consists of voluntary contributions made by many individuals on behalf of the MX4J project. For more information on MX4J, please see the MX4J website (<http://mx4j.sourceforge.net/>).

=====

Notice for The Independent JPEG Group's JPEG software

=====

This distribution may contain software that is based in part on the work of the Independent JPEG Group for which the following notice applies:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

=====
=====

Notice for Little CMS

=====

This distribution may contain software that is based in part on Little cms for which the following notice applies:

Copyright (c) 1998-2007 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====
=====

Notice for libpng

=====

This distribution may contain software that is based in part on libpng v1.2.38 for which the following notice applies:

libpng versions 1.2.6, August 15, 2004, through 1.2.38, July 16, 2009, are Copyright (c) 2004, 2006-2009 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors:

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5, October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with

the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998, 1999, 2000 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger
Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

=====
=====

Notice for Unicode Character Database

=====

Copyright (c) 1991-2005 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in <http://www.unicode.org/copyright.html>.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR

SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

=====
=====

Notice for IETF RFCs prior to 2005

=====

This distribution may contain software that is based in part on the work of the following IETF RFCs. Portions of the IETF RFC specifications may be included in source code comments for reference, and in accordance with the licensing terms, the licenses are reproduced here:

RFC 1779 - A String Representation of Distinguished Names

RFC 2045 - Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies

RFC 2251 - Lightweight Directory Access Protocol (v3)
Copyright (C) The Internet Society (1997). All Rights Reserved.

RFC 2253 - Lightweight Directory Access Protocol (v3): UTF-8 String Representation of Distinguished Names
Copyright (C) The Internet Society (1997). All Rights Reserved.

RFC 2313 - PKCS #1: RSA Encryption
Copyright (C) The Internet Society (1998). All Rights Reserved.

RFC 2315 - PKCS #7: Cryptographic Message Syntax
Copyright (C) The Internet Society (1998). All Rights Reserved.

RFC 2459 - Internet X.509 Public Key Infrastructure Certificate and CRL Profile
Copyright (C) The Internet Society (1999). All Rights Reserved.

RFC 2616 - Hypertext Transfer Protocol -- HTTP/1.1
Copyright (C) The Internet Society (1999). All Rights Reserved.

RFC 2781 - UTF-16, an encoding of ISO 10646
Copyright (C) The Internet Society (2000). All Rights Reserved.

RFC 2891 - LDAP Control Extension for Server Side Sorting of Search Results

Copyright (C) The Internet Society (2000). All Rights Reserved.

RFC 2985 - PKCS #9: Selected Object Classes and Attribute Types

Copyright (C) The Internet Society (2000). All Rights Reserved.

RFC 3161 - Internet X.509 Public Key Infrastructure Time-Stamp Protocol (TSP)

Copyright (C) The Internet Society (2001). All Rights Reserved.

RFC 3280 - Internet X.509 Public Key Infrastructure, Certificate and
Certificate Revocation List (CRL) Profile

Copyright (C) The Internet Society (2002). All Rights Reserved.

INTERNET-DRAFT - Persistent Search: A Simple LDAP Change Notification Mechanism

<draft-ietf-ldapext-psearch-03.txt>

Copyright (C) The Internet Society (1997-2000). All Rights Reserved.

The following statement applies to each RFC:

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Notice for IETF RFCs from 2005 onwards

=====

This distribution may contain software that is based in part on the work of the following IETF RFCs. Portions of the IETF RFC specifications may be included in source code comments for reference, and in accordance with the licensing terms, the licenses are reproduced here:

RFC 4122 - A Universally Unique Identifier (UUID) URN Namespace
Copyright (C) The Internet Society (2005).

The following statement applies to this RFC:

Copyright (C) The Internet Society (2005).

This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.

This document and the information contained herein are provided on an "AS IS" basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

=====
=====

Notice for RSA Public-Key Cryptography Standards

=====

Portions of Apache Harmony reference RSA Public-Key Cryptography Standards: PKCS#7, PKCS#8 and PKSC#10. Portions of these standards are included in Harmony Javadoc for reference, and in accordance with the licensing terms for PKCS#7, PKCS#8 and PKSC#10, the full copyright statement is here:

Copyright 1991-1993 RSA Laboratories, a division of RSA Data Security, Inc. License to copy this document is granted provided that it is identified as "RSA Data Security, Inc. Public-Key Cryptography Standards (PKCS)" in all material mentioning or referencing this document.

=====
=====

Notice for Apache Yoko

=====

This distribution may contain software that is based in part on Apache Yoko for which the following notice applies:

Apache Yoko is an effort undergoing incubation at the Apache Software Foundation (ASF). Incubation is required of all newly accepted projects until a further review indicates that the infrastructure, communications, and decision making process have stabilized in a manner consistent with other successful ASF projects. While incubation status is not necessarily a reflection of the completeness or stability of the code, it does indicate that the project has yet to be fully endorsed by the ASF.

<http://incubator.apache.org/yoko/>

=====
=====

Notice for the Eclipse JDT Core Batch Compiler

=====

The license terms for the Eclipse JDT Core Batch Compiler are available at <http://www.eclipse.org/legal/epl-v10.html>

Source code for the Eclipse JDT Core Batch Compiler can be found at:

<http://download.eclipse.org/eclipse/downloads/>

Navigate to the version of ECJ used in this distribution, and the source is provided in a ZIP file in the section titled "JDT Core Batch Compiler".

=====
=====

License notice for the DejaVu fonts package

=====
Fonts are (c) Bitstream (see below). DejaVu changes are in public domain.
Glyphs imported from Arev fonts are (c) Tavmjung Bah (see below)

Bitstream Vera Fonts Copyright

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is
a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of the fonts accompanying this license ("Fonts") and associated
documentation files (the "Font Software"), to reproduce and distribute the
Font Software, including without limitation the rights to use, copy, merge,
publish, distribute, and/or sell copies of the Font Software, and to permit
persons to whom the Font Software is furnished to do so, subject to the
following conditions:

The above copyright and trademark notices and this permission notice shall
be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular
the designs of glyphs or characters in the Fonts may be modified and
additional glyphs or characters may be added to the Fonts, only if the fonts
are renamed to names not containing either the words "Bitstream" or the word
"Vera".

This License becomes null and void to the extent applicable to Fonts or Font
Software that has been modified and is distributed under the "Bitstream
Vera" names.

The Font Software may be sold as part of a larger software package but no
copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT,
TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME
FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING
ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE
FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome
Foundation, and Bitstream Inc., shall not be used in advertising or

otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

Arev Fonts Copyright

Copyright (c) 2006 by Tavmjong Bah. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the modifications to the Bitstream Vera Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Tavmjong Bah" or the word "Arev".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Tavmjong Bah Arev" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL TAVMJONG BAH BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the name of Tavmjong Bah shall not

be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from Tavmjong Bah. For further information, contact: tavmjong @ free . fr.

=====
=====

License notice for ASM

=====

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====
=====

License notice for Junit

=====

This distribution may contain a jar file based on Junit 4.2.1 for which the following notice applies:

Copyright 2001-2009 Kent Beck <kent@threeiversinstitute.org>

Copyright 2000-2009 Erich Gamma <erich_gamma@acm.org>

Copyright 2006-2009 David Saff <david@saff.net>

Common Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement,

including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and

conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and

any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any

entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

=====
=====

The Apache Harmony DRLVM uses the Apache Portable Runtime which includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents

is subject to the terms and conditions of the following licenses.

From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
/*
 * Copyright (c) 1987, 1993, 1994
 *   The Regents of the University of California. All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *   notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *   notice, this list of conditions and the following disclaimer in the
 *   documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *   must display the following acknowledgement:
 *   This product includes software developed by the University of
 *   California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *   may be used to endorse or promote products derived from this software
 *   without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
/* Copyright (c) 1996 by Internet Software Consortium.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
 * ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
```

* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.

From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Copyright (c) 1992,1993,1995,1996,1997,1988
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
*
* Not derived from licensed software.
*
* Permission is granted to freely use, copy, modify, and redistribute
* this software, provided that the author is not construed to be liable
* for any results of using the software, alterations are clearly marked
* as such, and this notice is not modified.

From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

From strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
*

Copyright(C) Caldera International Inc. 2001-2002. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code and documentation must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed or owned by Caldera International, Inc.

Neither the name of Caldera International, Inc. nor the names of other contributors may be used to endorse or promote products derived from this software without specific prior written permission.

USE OF THE SOFTWARE PROVIDED FOR UNDER THIS LICENSE BY CALDERA INTERNATIONAL, INC. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL CALDERA INTERNATIONAL, INC. BE LIABLE FOR ANY DIRECT, INDIRECT INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====
=====

License notice for Hamcrest

=====

BSD License

Copyright (c) 2000-2006, www.hamcrest.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====
=====
The Trove library is licensed under the Lesser GNU Public License, which is included with the distribution in a file called trove_license.txt.

The PrimeFinder and HashFunctions classes in Trove are subject to the following license restrictions:

Copyright (c) 1999 CERN - European Organization for Nuclear Research.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. CERN makes no representations about the

suitability of this software for any purpose. It is provided "as is" without expressed or implied warranty.
Copyright (c) 2005-2010 Sam Stephenson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (C) 2009-2015 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2019 Microsoft Corporation, Daan Leijen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
=====
== NOTICE file corresponding to the section 4 d of      ==
== the Apache License, Version 2.0,                    ==
== in this case for the Kotlin Compiler distribution.    ==
=====
```

Kotlin Compiler

Copyright 2010-2020 JetBrains s.r.o and respective authors and developers

Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute

the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a

commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and

distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

This license applies to all parts of Dart that are not externally maintained libraries. The external maintained libraries used by Dart are:

7-Zip - in third_party/7zip
JSCRE - in runtime/third_party/jscre
Ant - in third_party/apache_ant
args4j - in third_party/args4j
bzip2 - in third_party/bzip2
dromaeo - in samples/third_party/dromaeo
Eclipse - in third_party/eclipse
gsutil = in third_party/gutil
Guava - in third_party/guava
hamcrest - in third_party/hamcrest
HttpLib2 - in samples/third_party/httpLib2
JSON - in third_party/json
JUnit - in third_party/junit
Oauth - in samples/third_party/oauth2client
Rhino - in third_party/rhino
weberknecht - in third_party/weberknecht

The libraries may have their own licenses; we recommend you read them, as their terms may differ from the terms below.

Copyright 2012, the Dart project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libffi - Copyright (c) 1996-2014 Anthony Green, Red Hat, Inc and others.

See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

The Apache 2 license (given in full in LICENSE.txt) applies to all code in this repository which is copyright by JetBrains. The following sections of the repository contain third-party code, to which different licenses may apply:

Kotlin Compiler

The following modules contain third-party code and are incorporated into the Kotlin compiler and/or the Kotlin IntelliJ IDEA plugin:

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxStackSizeAndLocalsCalculator.java
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxLocalsCalculator.java
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/InstructionLivenessAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/ControlFlowGraph.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/fixStack/FastStackAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/temporaryVals/FastStoreLoadAnalyzer.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom
- Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
 - License: MIT ([license/third_party/pcollections_LICENSE.txt][pcollections])

- Origin: Derived from PCollections, A Persistent Java Collections Library (<https://pcollections.org/>)

- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/OptimizationBasicInterpreter.java
 - License: BSD ([license/third_party/asm_license.txt][asm])
 - Origin: Derived from ASM: a very small and fast Java bytecode manipulation framework, Copyright (c) 2000-2011 INRIA, France Telecom

- Path: js/js.ast
 - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
 - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
 - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.parser/src/com/google
 - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
 - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.

- Path: js/js.translator/qunit/qunit.js
 - License: MIT ([license/third_party/qunit_license.txt][qunit])
 - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
 - License: Apache 2 ([license/third_party/guava_license.txt][guava])
 - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors

- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/js/src/kotlin/collections
 - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
 - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/js-v1/src/js/long.js
 - License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])

- Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
 - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
 - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
 - License: Apache 2 ([third_party/assemblyscript_license.txt][assemblyscript])
 - Origin: Derived from assemblyscript standard library

- Path: plugins/lint/android-annotations
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: plugins/lint/lint-api
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: plugins/lint/lint-checks
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: plugins/lint/lint-idea
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
 - License: MIT ([license/third_party/asmble_license.txt][asmble])
 - Origin: Copyright (C) 2018 Chad Retz

- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project

Kotlin Test Data

The following source code is used for testing the Kotlin compiler and/or plugin and is not incorporated into any distributions of the compiler, libraries or plugin:

- Path: third-party/annotations/android
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: third-party/annotations/com/android
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: third-party/annotations/org/eclipse
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
 - Origin: Eclipse JDT, Copyright (c) 2011, 2013 Stephan Herrmann and others.
- Path: third-party/annotations/androidx
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project
- Path: third-party/annotations/edu/umd/cs/findbugs
 - License: LGPL 2.1 ([license/third_party/testdata/findbugs_license.txt][findbugs])
 - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland
- Path: third-party/java8-annotations/org/eclipse
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
 - Origin: Eclipse JDT, Copyright (c) 2011, 2013 Stephan Herrmann and others.
- Path: third-party/annotations/io/reactivex
 - License: Apache 2 ([license/third_party/testdata/rxjava_license.txt][rxjava])
 - Origin: RxJava, Copyright (c) 2016-present, RxJava Contributors
- Path: third-party/java8-annotations/org/jspecify
 - License: Apache 2 ([license/third_party/testdata/jspecify_license.txt][jspecify])
 - Origin: JSpecify, Copyright (C) 2020 The JSpecify Authors
- Path: third-party/java9-annotations/org/jspecify
 - License: Apache 2 ([license/third_party/testdata/jspecify_license.txt][jspecify])
 - Origin: JSpecify, Copyright (C) 2020 The JSpecify Authors
- Path: third-party/annotations/lombok
 - License: MIT ([license/third_party/testdata/lombok_license.txt][lombok])
 - Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors
- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project
- Path: idea/testData/android/lintQuickfix/requiresApi/RequiresApi.java
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project
- Path: idea/testData/android/lint/IntRange.java
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project
- Path: idea/testData/android/lint/RequiresPermission.java
 - License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
 - Origin: Copyright (C) 2011-15 The Android Open Source Project

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
 - License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
 - Origin: Dagger, Copyright (C) 2013 Square, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/kapt2
 - License: Apache 2 ([license/third_party/testdata/dagger_license.txt][dagger])
 - Origin: Dagger, Copyright (C) 2013 Square, Inc.

- Path: libraries/tools/kotlin-maven-plugin-test/src/it/test-allopen-spring/src/main/java/org/springframework/stereotype/Component.java
 - License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
 - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

Kotlin Tools and Libraries Tests

The following source code is used for testing the Kotlin tools and/or libraries and is not incorporated into any distributions of the tools or libraries:

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/kotlin/org/jetbrains/kotlin/gradle/PluginsDslIT.kt
 - License: Apache 2 ([license/third_party/gradle_license.txt][gradle])
 - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-classes/testProject/noArgJpa/src/javax/persistence/Entity.java
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
and Eclipse Distribution License - v1.0
([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])
 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Entity.java
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
and Eclipse Distribution License - v1.0
([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])
 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Embeddable.java
 - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
and Eclipse Distribution License - v1.0
([license/third_party/testdata/eclipse_distribution_license.txt][eclipse-distribution])
 - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
 - License: MIT ([license/third_party/karma_LICENSE.txt](third_party/karma_LICENSE.txt) and [license/third_party/karma-teamcity-reporter_LICENSE.txt](third_party/karma-teamcity-reporter_LICENSE.txt))
 - Origin: Copyright (C) 2011-2019 Google, Inc. and Copyright (C) 2011-2013 Vojta Jna and contributors.

- Path: libraries/tools/kotlin-test-js-runner/mocha-kotlin-reporter.js
 - License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-reporter_LICENSE.txt))
 - Origin: Copyright (c) 2016 Jamie Sherriff

- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
 - License: MIT ([license/third_party/teamcity-service-messages_LICENSE.txt](third_party/teamcity-service-messages_LICENSE.txt) and [license/third_party/lodash_LICENSE.txt](third_party/lodash_LICENSE.txt))
 - Origin: Copyright (c) 2013 Aaron Forsander and Copyright JS Foundation and other contributors <<https://js.foundation/>>

- Path: libraries/tools/kotlin-test-js-runner/src/teamcity-format.js
 - License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-reporter_LICENSE.txt) and [license/third_party/teamcity-service-messages_LICENSE.txt](third_party/teamcity-service-messages_LICENSE.txt))
 - Origin: Copyright (c) 2016 Jamie Sherriff and Copyright (c) 2013 Aaron Forsander

Example Code

The following code is provided as examples and is not incorporated into any distributions of the compiler, libraries or plugin:

- Path: libraries/examples/browser-example/src/js/jquery.js
 - License: MIT ([license/third_party/jquery_license.txt](jquery_license.txt))
 - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

- Path: libraries/examples/browser-example-with-library/src/js/jquery.js
 - License: MIT ([license/third_party/jquery_license.txt](jquery_license.txt))
 - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

[aosp]: third_party/aosp_license.txt
 [asm]: third_party/asm_license.txt
 [boost]: third_party/boost_LICENSE.txt
 [closure-compiler]: third_party/closure-compiler_LICENSE.txt
 [dagger]: third_party/testdata/dagger_license.txt
 [dart]: third_party/dart_LICENSE.txt
 [eclipse]: third_party/testdata/eclipse_license.txt
 [eclipse-distribution]: third_party/testdata/eclipse_distribution_license.txt
 [findbugs]: third_party/testdata/findbugs_license.txt
 [gradle]: third_party/gradle_license.txt

[guava]: third_party/guava_license.txt
[gwt]: third_party/gwt_license.txt
[jquery]: third_party/jquery_license.txt
[lombok]: third_party/testdata/lombok_license.txt
[pcollections]: third_party/pcollections_LICENSE.txt
[qunit]: third_party/qunit_license.txt
[rhino]: third_party/rhino_LICENSE.txt
[rxjava]: third_party/testdata/rxjava_license.txt
[spring]: third_party/testdata/spring_license.txt
[assemblyscript]: third_party/assemblyscript_license.txt

/*

* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.

* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

*/

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,

modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

Hopefully that text is self-explanatory. If it isn't, you need to speak to your lawyer, or the Free Software Foundation.
Copyright (c) 2008 Harold Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
 - i) changes to the Program, and
 - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution.
No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:

- i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
- ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
- iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
- iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must:

- a) promptly notify the Commercial Contributor in writing of such claim, and
- b) allow the Commercial Contributor to control, and cooperate with the

Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself

(excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

JSON

Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*

* Copyright 2000-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.

* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

*/

package tasks

import groovy.util.Node

import groovy.util.XmlParser

import org.gradle.api.DefaultTask

import org.gradle.api.file.RegularFileProperty

import org.gradle.api.provider.Property

import org.gradle.api.tasks.Input

import org.gradle.api.tasks.InputFile

import org.gradle.api.tasks.OutputFile

import org.gradle.api.tasks.TaskAction

import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {

 @InputFile

 val path = project.file("\${project.rootDir}/.idea/copyright/apache.xml")

 @get:OutputFile

 abstract val outputFile: RegularFileProperty

 @get:Input

 val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

 @TaskAction

 fun write() {

 val file = outputFile.asFile.get()

 file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())

 }

 private fun readCopyright(): String {

 assert(path.exists()) {

 "File \$path with copyright not found"

```

    }

    val xmlParser = XmlParser()
    val node = xmlParser.parse(path)
    assert(node.attribute("name") == "CopyrightManager") {
        "Format changed occasionally?"
    }

    val copyrightBlock = node.children().filterIsInstance<Node>().single()
    val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
    GregorianCalendar()[Calendar.YEAR].toString())
}

private fun readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}

```

Apache License
 Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (C) 2011-2013 Vojta Jna and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2018 Chad Retz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====
== NOTICE file corresponding to the section 4 d of ==
== the Apache License, Version 2.0, ==
== in this case for the Kotlin Compiler distribution. ==
=====

Kotlin Compiler

Copyright 2010-2017 JetBrains s.r.o and respective authors and developers

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2000-2020 JetBrains s.r.o.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/**

* Copyright 2010 Tim Down.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.

*/

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (C) 2011-2019 Google, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
SCALA LICENSE

Copyright (c) 2002-2012 EPFL, Lausanne, unless otherwise specified.
All rights reserved.

This software was developed by the Programming Methods Laboratory of the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.

Permission to use, copy, modify, and distribute this software in source or binary form for any purpose with or without fee is hereby granted, provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the EPFL nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2016 Jamie Sherriff

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====
Licenses for included components:

Eclipse Public License 1.0

<https://opensource.org/licenses/EPL-1.0>

junit:junit

org.sonatype.aether:aether-api

org.sonatype.aether:aether-connector-wagon

org.sonatype.aether:aether-impl

org.sonatype.aether:aether-spi

org.sonatype.aether:aether-util

3-Clause BSD

<https://opensource.org/licenses/BSD-3-Clause>

com.google.code.findbugs:jsr305

org.hamcrest:hamcrest-core

BSD License

Copyright (c) 2000-2015 www.hamcrest.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

com.esotericsoftware.kryo:kryo
com.esotericsoftware.minlog:minlog
Copyright (c) 2008-2018, Nathan Sweet All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

MIT

com.googlecode.plist:dd-plist

dd-plist - An open source library to parse and generate property lists

Copyright (C) 2016 Daniel Dreibrod

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

org.bouncycastle:bcpk-jdk15on

org.bouncycastle:bcprov-jdk15on

Copyright (c) 2000 - 2019 The Legion of the Bouncy Castle Inc. (<https://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,

INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

org.slf4j:jcl-over-slf4j
org.slf4j:jul-to-slf4j
org.slf4j:log4j-over-slf4j
org.slf4j:slf4j-api
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

CDDL

<https://opensource.org/licenses/CDDL-1.0>

com.sun.xml.bind:jaxb-impl

LGPL 2.1

<https://www.gnu.org/licenses/old-licenses/lgpl-2.1.en.html>

org.samba.jcifs:jcifs

org.jetbrains.intellij.deps:trove4j

License for the GNU Trove library included by the Kotlin embeddable compiler

The source code for GNU Trove is licensed under the Lesser GNU Public License (LGPL).

Copyright (c) 2001, Eric D. Friedman All Rights Reserved. This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Two classes (HashFunctions and PrimeFinder) included in Trove are licensed under the following terms:

Copyright (c) 1999 CERN - European Organization for Nuclear Research. Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. CERN makes no representations about the suitability of this software for any purpose. It is provided "as is" without expressed or implied warranty.

The source code of modified GNU Trove library is available at <https://github.com/JetBrains/intellij-deps-trove4j> (with trove4j_changes.txt describing the changes)

Eclipse Distribution License 1.0
<https://www.eclipse.org/org/documents/edl-v10.php>

org.eclipse.jgit.org

BSD-style

com.jcraft:jsch
com.jcraft:jzlib

Copyright (c) 2000-2011 ymnk, JCraft, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,

this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Eclipse Public License 2.0
<https://www.eclipse.org/legal/epl-2.0/>

org.junit.platform:junit-platform-launcher

Mozilla Public License 2.0
<https://www.mozilla.org/en-US/MPL/2.0/>

org.mozilla:rhino
/*

- * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
- *
- * Licensed under the Apache License, Version 2.0 (the "License");
- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at
- *
- * <http://www.apache.org/licenses/LICENSE-2.0>
- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

musl as a whole is licensed under the following standard MIT license:

Copyright 2005-2014 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Authors/contributors include:

Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
Chris Spiegel
Emil Renner Berthing
Hiltjo Posthuma
Isaac Dunham
Jens Gustedt
Jeremy Huntwork
John Spencer
Justin Cormack
Luca Barbato
Luka Perkov
Michael Forney
Nicholas J. Kain
orc
Pascal Cuoq
Pierre Carrier
Rich Felker
Richard Pennington
Solar Designer
Strake

Szabolcs Nagy
Timo Ters
Valentin Ochs
William Haddon

Portions of this software are derived from third-party works licensed under terms compatible with the above MIT license:

The TRE regular expression implementation (`src/regex/reg*` and `src/regex/tre*`) is Copyright 2001-2008 Ville Laurikari and licensed under a 2-clause BSD license (license text in the source files). The included version has been heavily modified by Rich Felker in 2012, in the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (`src/math/*` and `src/complex/*`) is Copyright 1993,2004 Sun Microsystems or Copyright 2003-2011 David Schultz or Copyright 2003-2009 Steven G. Kargl or Copyright 2003-2009 Bruce D. Evans or Copyright 2008 Stephen L. Moshier and labelled as such in comments in the individual source files. All have been licensed under extremely permissive terms.

The ARM memcpy code (`src/string/armel/memcpy.s`) is Copyright 2008 The Android Open Source Project and is licensed under a two-clause BSD license. It was taken from Bionic libc, used on Android.

The implementation of DES for crypt (`src/misc/crypt_des.c`) is Copyright 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (`src/misc/crypt_blowfish.c`) was originally written by Solar Designer and placed into the public domain. The code also comes with a fallback permissive license for use in jurisdictions that may not recognize the public domain.

The smoothsort implementation (`src/stdlib/qsort.c`) is Copyright 2011 Valentin Ochs and is licensed under an MIT-style license.

The BSD PRNG implementation (`src/prng/random.c`) and XSI search API (`src/search/*.*`) functions are Copyright 2011 Szabolcs Nagy and licensed under following terms: "Permission to use, copy, modify, and/or distribute this code for any purpose with or without fee is hereby granted. There is no warranty."

The x86_64 port was written by Nicholas J. Kain. Several files (`crt`) were released into the public domain; others are licensed under the standard MIT license terms at the top of this file. See individual files for their copyright status.

The mips and microblaze ports were originally written by Richard Pennington for use in the ellcc project. The original code was adapted by Rich Felker for build system and code conventions during upstream integration. It is licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington, and later supplemented and integrated by John Spencer. It is licensed under the standard MIT terms.

All other files which have no copyright comments are original works produced specifically for use as part of this library, written either by Rich Felker, the main author of the library, or by one or more contributors listed above. Details on authorship of individual files can be found in the git version control history of the project. The omission of copyright and license comments in each file is in the interest of source tree size.

All public header files (include/* and arch/*/bits/*) should be treated as Public Domain as they intentionally contain no content which can be covered by copyright. Some source modules may fall in this category as well. If you believe that a file is so trivial that it should be in the Public Domain, please contact the authors and request an explicit statement releasing it from copyright.

The following files are trivial, believed not to be copyrightable in the first place, and hereby explicitly released to the Public Domain:

All public headers: include/*, arch/*/bits/*

Startup files: crt/*

UNLESS SPECIFIED OTHERWISE IN THE INDIVIDUAL SOURCE FILES INCLUDED WITH THIS PACKAGE, they may freely be used, modified and/or redistributed for any purpose.

Portions, Copyright 1991-2005 Unicode, Inc. The following applies to Unicode.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2005 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in <http://www.unicode.org/copyright.html>. Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright

notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

2. Additional terms from the Database:

Copyright 1995-1999 Unicode, Inc. All Rights reserved.

Disclaimer

The Unicode Character Database is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt. This disclaimer is applicable for all other data files accompanying the Unicode Character Database, some of which have been compiled by the Unicode Consortium, and some of which have been supplied by other sources.

Limitations on Rights to Redistribute This Data

Recipient is granted the right to make copies in any form for internal distribution and to freely use the information supplied in the creation of products supporting the Unicode™ Standard. The files in the Unicode Character Database can be redistributed to third parties or other organizations (whether for profit or not) as long as this notice and the disclaimer notice are retained. Information can be extracted from these files and used in documentation or programs, as long as there is an accompanying notice indicating the source.

Google Dart Js backend was removed - <https://code.google.com/p/dart/source/detail?r=4771>

According to <http://www.apache.org/legal/3party.html> we can include "Google Dart Js backend" in source form, because code license is "New BSD License" (Authorized License).

This part of code will be removed when kotlin will be rewritten on kotlin.
Copyright JS Foundation and other contributors, <https://js.foundation/>

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/jquery/jquery>

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative

works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The files in this package are taken from mozilla's Rhino project.

See <http://www.mozilla.org/rhino/>

The files modified from Rhino 1.5R3

(<ftp://ftp.mozilla.org/pub/js/rhino15R3.zip>).

--

The contents of this package are subject to the Netscape Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/NPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is Rhino code, released May 6, 1999.

The Initial Developer of the Original Code is Netscape Communications Corporation. Portions created by Netscape are Copyright (C) 1997-2000 Netscape Communications Corporation. All Rights Reserved.

Alternatively, the contents of this file may be used under the terms of the GNU Public License (the "GPL"), in which case the provisions of the GPL are applicable instead of those above.

If you wish to allow use of your version of this file only under the terms of the GPL and not to allow others to use your version of this file under the NPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL. If you do not delete the provisions above, a recipient may use your version of this file under either the NPL or the GPL.

<http://fastutil.di.unimi.it/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The majority of Rhino is MPL 1.1 / GPL 2.0 dual licensed:

The Mozilla Public License (<http://www.mozilla.org/MPL/MPL-1.1.txt>):

MOZILLA PUBLIC LICENSE

Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty,

support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All

sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the NPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.
Portions created by _____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the "[___] License"), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [___] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [___] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [___] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should

use the text of this Exhibit A rather than the text found in the
Original Code Source Code for Your Modifications.]

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Additionally, some files (currently the contents of toolsrc/org/mozilla/javascript/tools/debugger/treetable/) are available only under the following license:

* Copyright 1997, 1998 Sun Microsystems, Inc. All Rights Reserved.

*

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions

* are met:

*

* - Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.

*

* - Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.

*

* - Neither the name of Sun Microsystems nor the names of its
* contributors may be used to endorse or promote products derived
* from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
* IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
* THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
* EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
* PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
* PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013 Aaron Forsander

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the

ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
The MIT License

Copyright (c) 2003, Kohsuke Kawaguchi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright JS Foundation and other contributors <<https://js.foundation/>>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <<http://underscorejs.org/>>

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/lodash/lodash>

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample

code is defined as all source code displayed within the prose of the documentation.

CC0: <http://creativecommons.org/publicdomain/zero/1.0/>

====

Files located in the `node_modules` and `vendor` directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

Copyright JS Foundation and other contributors, <https://js.foundation>

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/qunitjs/qunit>

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the

Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.

EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.5 antlr 4.9.2

1.5.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
[The "BSD licence"]  
Copyright (c) 2006 Kay Roepke  
All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type><message.id>: <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2012-2016 Terence Parr

* Copyright (c) 2012-2016 Sam Harwell

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* 1. Redistributions of source code must retain the above copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

* 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
* Parses trees created by ANTLRParser.g.
*
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about. This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/

```

```

tree grammar GrammarTreeVisitor;
options {
language    = Java;
tokenVocab  = ANTLRParser;
ASTLabelType = GrammarAST;
}

```

```

// Include the copyright in this source and also the generated source

```

```

@header {

```

```

/*

```

```

[The "BSD license"]

```

```

Copyright (c) 2011 Terence Parr

```

```

All rights reserved.

```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


```

*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}
}

```

```

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

```

protected void enterPrequelConstruct(GrammarAST tree) { }

protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }

protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }

protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }

protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }

protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }

protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }

protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }

protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }

protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }

protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }

protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }

protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }

protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }

protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }

protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }

protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }

protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }

protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }

protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }

protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }

protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }

protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }

protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }

protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }

protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }

protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }

protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }

protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }

protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }

protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

protected void exitLexerBlock(GrammarAST tree) { }

```
protected void enterLexerAtom(GrammarAST tree) { }  
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }  
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }  
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }  
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }  
protected void exitLexerCommandExpr(GrammarAST tree) { }
```

```
protected void enterElement(GrammarAST tree) { }  
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }  
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }  
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }  
protected void exitSubrule(GrammarAST tree) { }
```

```
protected void enterLexerSubrule(GrammarAST tree) { }  
protected void exitLexerSubrule(GrammarAST tree) { }
```

```
protected void enterBlockSuffix(GrammarAST tree) { }  
protected void exitBlockSuffix(GrammarAST tree) { }
```

```
protected void enterEbnfSuffix(GrammarAST tree) { }  
protected void exitEbnfSuffix(GrammarAST tree) { }
```

```
protected void enterAtom(GrammarAST tree) { }  
protected void exitAtom(GrammarAST tree) { }
```

```
protected void enterBlockSet(GrammarAST tree) { }  
protected void exitBlockSet(GrammarAST tree) { }
```

```
protected void enterSetElement(GrammarAST tree) { }  
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }  
protected void exitBlock(GrammarAST tree) { }
```

```

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {

```

```

exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

```

prequelConstruct
@init {
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;

```

```

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

```

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
if ( block ) blockOption($ID, $v.start); // most specific first
else if ( rule ) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}
;

```

optionValue returns [String v]

```

@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}
@after {
  exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

delegateGrammars

```

@init {
  enterDelegateGrammars($start);
}
@after {
  exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
;

```

delegateGrammar

```

@init {
  enterDelegateGrammar($start);
}
@after {
  exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;

```

tokensSpec

```

@init {
  enterTokensSpec($start);
}
@after {
  exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

```

tokenSpec

```

@init {
  enterTokenSpec($start);
}
@after {

```



```

    exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

channelsSpec
@init {
    enterChannelsSpec($start);
}
@after {
    exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

channelSpec
@init {
    enterChannelSpec($start);
}
@after {
    exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
    enterAction($start);
}
@after {
    exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
    enterRules($start);
}
@after {
    exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
    enterMode($start);
}

```

```

}
@after {
    exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
    enterLexerRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    currentOuterAltNumber=0;
}
@after {
    exitLexerRule($start);
}
: ^( RULE TOKEN_REF
    {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
    (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
    {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
    lexerRuleBlock
    {
        finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
        currentRuleName=null; currentRuleAST=null;
    }
    )
;

rule
@init {
    enterRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
    currentOuterAltNumber=0;
}
@after {
    exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
    (^ (RULEMODIFIERS (m=ruleModifier {mods.add($m.start);}))+)?
    ARG_ACTION?
    ret=ruleReturns?
    thr=throwsSpec?
    loc=locals?
    ( opts=optionsSpec
    | a=ruleAction {actions.add($a.start);}
    )*
    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,

```

```

    $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
    $thr.start, $opts.start,
    $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
    actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
    enterExceptionGroup($start);
}
@after {
    exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
    enterExceptionHandler($start);
}
@after {
    exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
    enterFinallyClause($start);
}
@after {
    exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
    enterLocals($start);
}
@after {
    exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

```

```
ruleReturns
@init {
    enterRuleReturns($start);
}
@after {
    exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
    enterThrowsSpec($start);
}
@after {
    exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
    enterRuleAction($start);
}
@after {
    exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
    enterRuleModifier($start);
}
@after {
    exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;
```

```
lexerRuleBlock
@init {
    enterLexerRuleBlock($start);
}
}
```

```

@after {
  exitLexerRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  lexerOuterAlternative
  )+
  )
;

```

```

ruleBlock
@init {
  enterRuleBlock($start);
}
@after {
  exitRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  outerAlternative
  )+
  )
;

```

```

lexerOuterAlternative
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}

```

```

@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}
: alternative
;

```

lexerAlternative

```

@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;

```

lexerElements

```

@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;

```

lexerElement

```

@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
  | lexerAtom
  | lexerSubrule
  | ACTION    {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
  | ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
  | ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
  | EPSILON
;

```

labeledLexerElement

```

@init {
  enterLabeledLexerElement($start);
}

```

```

}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

```

lexerBlock
@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

```

```

lexerAtom
@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

```

```

actionElement
@init {
  enterActionElement($start);
}
@after {
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

```

alternative

```

```

@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

lexerCommand
@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

lexerCommandExpr
@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;

element
@init {
  enterElement($start);
}
@after {
  exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}

```



```

| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^(NOT blockSet)
| ^(NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
: ^(blockSuffix block)
| block
;

lexerSubrule
@init {
enterLexerSubrule($start);
}
@after {
exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)

```

```

| lexerBlock
;

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
  enterAtom($start);
}
@after {
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) { wildcardRef($WILDCARD);}
| WILDCARD { wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

blockSet
@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}

```

```

: ^(SET setElement+)
;

setElement
@init {
  enterSetElement($start);
}
@after {
  exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

```

```

block
@init {
  enterBlock($start);
}
@after {
  exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

```

```

ruleref
@init {
  enterRuleref($start);
}
@after {
  exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
  if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

```

```

range
@init {

```

```

enterRange($start);
}
@after {
exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
enterTerminal($start);
}
@after {
exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
    {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
enterElementOptions($start);
}
@after {
exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}
@after {
exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/parse/GrammarTreeVisitor.g

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2012-2016 Terence Parr

* Copyright (c) 2012-2016 Sam Harwell

* Copyright (c) 2014 Eric Vergnaud

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* 1. Redistributions of source code must retain the above copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

* 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/** ANTLR tool checks output templates are compatible with tool code generation.

* For now, a simple string match used on x.y of x.y.z scheme.

* Must match Tool.VERSION during load to templates.

*

* REQUIRED.

*/

pythonTypeInitMap ::= [

"bool": "False",

"int": "0",

"float": "0.0",

"str": "",

default: "None" // anything other than a primitive type is an object

]

```

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
    from typing import TextIO
else:
    from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from <file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames>:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

del <file.parserName>

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

from antlr4 import *
if __name__ is not None and "." in __name__:
    from <file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames>: { lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from <superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

sharedContextCache = PredictionContextCache()

literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

<if(parser.rules)>
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
<endif>

ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

EOF = <TokenLabelType>.EOF

<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if( sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
        self._predicates = dict()
<parser.sempredFuncs.values:{ f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()

```



```

<recog.actionFuncs.values:{f]
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f]
    preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>

```

```

<elseif(rest(actions))>
  elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif> }>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name> }>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  <endif>
  finally:

```

```

    <finallyAction>
    self.exitRule()
    return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=

<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>} ; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{ a | , <a> }><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{ a | , <a.name> }>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">

```

>>

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass }; separator="\nel">
else:
  <error>
```

>>

```
LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass }; separator="\nel">
else:
  pass
```

>>

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">
```

```
<!else if ( !(<followExpr> ) ) <error>!>
```

>>

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>
```

>>

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break
```

>>

```
// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">
```

>>

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">
```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
```

```

if _alt==1<if(!choice.ast.greedy)>+1<endif>:
  <iteration>
  <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

```

```

Sync(s) ::= "sync(<s.expecting.name>)"

```

```

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShiftVar(s.varName, bits.shift)>)> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)> & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0)
%>

```

```

isZero ::= [
"0":true,

```

```

default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype> }; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{ t | <parser.name>.<t> }; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><(if(argExprsChunks)><endif><endif><argExprsChu
nks)>
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<

```

```

self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
    <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)    ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)    ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```



```

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)

```

```

    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
    __slots__ = 'parser'

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)>:<a.type><endif>=None }):
        super().__init__(parent, invokingState)

```

```

    self.parser = parser
    <attrs:{ a | <a>}; separator="\n">
    <struct.ctorAttrs:{ a | self.<a.name> = <a.name>}; separator="\n">

<getters:{ g | <g>}; separator="\n\n">

def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx:ParserRuleContext):
    super().copyFrom(ctx)
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)
        <attrs:{ a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

```

```

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
    from typing import TextIO
else:
    from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from <superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
    <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes)>
    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
<if(lexer.tokens)>
    <lexer.tokens:{k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

    modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

```

```

literalNames = [ "\<INVALID>",
                 <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

symbolicNames = [ "\<INVALID>",
                  <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

grammarFileName = "<lexer.grammarFileName>"

def __init__(self, input=None, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={ }<n>    buf.write({ }>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

/*

```

```

* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```
/** Find left-recursive rules */
```

```
tree grammar LeftRecursiveRuleWalker;
```

```
options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

```

```
@header {
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```
@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?

```

```

public int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
    currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
    ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
    ^(RETURNS a=ARG_ACTION {setReturnValues($a;)}))?)
// (^(THROWS .+)? don't allow
    (^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
    (^(OPTIONS .*)
    | ^(AT ID ACTION) // TODO: copy
    )*
    ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
    exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE

```



```

| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
(
o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>      binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>      prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>      suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur    {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
element+
recurse epsilonElement*
)
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse

```

```
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;
```

```
recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;
```

```
token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF        {$t = $c;}
;
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;
```

```
elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

```
element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;
```

```
epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

```
setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

No license file was found, but licenses were detected in source scan.

- * [The "BSD license"]
- * All rights reserved.
- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:
- * 1. Redistributions of source code must retain the above copyright
- * notice, this list of conditions and the following disclaimer.
- * 2. Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

[The "BSD licence"]

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRParser.g

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2012 Terence Parr

* Copyright (c) 2012 Sam Harwell

* Copyright (c) 2014 Tiago Mazzutti

* Copyright (c) 2017 Tobe Osakwe

* Copyright (c) 2020 Larry Li

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

*

- * 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

```
dartTypeInitMap ::= [  
  "int": "0",  
  "double": "0.0",  
  "bool": "false",  
  default: "null" // anything other than a primitive type is an object  
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
```

```
library <file.genPackage>;
```

```
import 'package:antlr4/antlr4.dart';
```

```
import 'dart:io';
```

```
<if(file.genListener)>
```

```
part '<file.grammarName>Listener.dart';
```

```
part '<file.grammarName>BaseListener.dart';
```

```
<endif>
```

```
<if(file.genVisitor)>
```

```
part '<file.grammarName>Visitor.dart';
```

```
part '<file.grammarName>BaseVisitor.dart';
```

```
<endif>
```

```
part '<file.grammarName>Lexer.dart';
```

```
<else>
```

```
import 'package:antlr4/antlr4.dart';
```

```
import 'dart:io';
```

```
<if(file.genListener)>
```

```
import '<file.grammarName>Listener.dart';
```

```
import '<file.grammarName>BaseListener.dart';
```

```
<endif>
```

```
<if(file.genVisitor)>
```

```
import '<file.grammarName>Visitor.dart';
```

```
import '<file.grammarName>BaseVisitor.dart';
```

```
<endif>
```

```
<endif>
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

/// This abstract class defines a complete listener for a parse tree produced by
/// [<file.parserName>].
abstract class <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames>: {Iname |
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the [<Iname>]
/// labeled alternative in [file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Enter a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void enter<Iname; format="cap">(<Iname; format="cap">Context ctx);
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the [<Iname>]
/// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Exit a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void exit<Iname; format="cap">(<Iname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Listener.dart';
<endif>

<header>

/// This class provides an empty implementation of [<file.grammarName>Listener],
/// which can be extended to create a listener which only needs to handle

```

```

/// a subset of the available methods.
class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames:{ lname |

/// The default implementation does nothing.
@override
void enter<lname; format="cap">(<lname; format="cap">Context ctx) {}

/// The default implementation does nothing.
@override
void exit<lname; format="cap">(<lname; format="cap">Context ctx) {}}; separator="\n">

/// The default implementation does nothing.
@override
void enterEveryRule(ParserRuleContext ctx) {}

/// The default implementation does nothing.
@override
void exitEveryRule(ParserRuleContext ctx) {}

/// The default implementation does nothing.
@override
void visitTerminal(TerminalNode node) {}

/// The default implementation does nothing.
@override
void visitErrorNode(ErrorNode node) {}
}

>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
abstract class <file.grammarName>Visitor<T> extends ParseTreeVisitor<T> {

```

```

<file.visitorNames:{lname |
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the { @code <lname>\}
/// labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
/// Visit a parse tree produced by [<file.parserName>.<lname>].
<endif>
/// [ctx] the parse tree.
/// Return the visitor result.
T visit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

```

```

import '<file.parserName>.dart';
import '<file.grammarName>Visitor.dart';
<endif>
<header>

```

```

/// This class provides an empty implementation of [<file.grammarName>Visitor],
/// which can be extended to create a visitor which only needs to handle
/// a subset of the available methods.
///

```

```

/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.

```

```

class <file.grammarName>BaseVisitor<T> extends ParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {

```

```

<file.visitorNames:{lname |

```

```

/// The default implementation returns the result of calling

```

```

/// [visitChildren] on [ctx].

```

```

@override

```

```

T visit<lname; format="cap">(<lname; format="cap">Context ctx) => visitChildren(ctx);}; separator="\n">
}

```

```

>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<

```

```

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

```

```

// ignore_for_file: unused_import, unused_local_variable, prefer_single_quotes

```

```

>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<

```

```

<Parser_(ctor="parser_ctor", ...)>

```


>>

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>
<if(parser.rules)>
const int <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
class <parser.name> extends <superClass; null="Parser"> {
    static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',
RuntimeMetaData.VERSION);
    static const int TOKEN_EOF = IntStream.EOF;

    static final List<DFA> _decisionToDFA = List.generate(
        _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
    static final PredictionContextCache _sharedContextCache = PredictionContextCache();
    <if(parser.tokens)>
    static const int <parser.tokens:{k | TOKEN_<k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>

    @override
    final List<String> ruleNames = [
        <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
    ];

    <vocabulary(parser.literalNames, parser.symbolicNames)>

    @override
    String get grammarFileName => '<parser.grammarFileName>';

    @override
    String get serializedATN => _serializedATN;

    @override
    ATN getATN() {
        return _ATN;
    }

    <namedActions.members>
    <parser:(ctor)()>
    <funcs; separator="\n">

    <if(sempredFuncs)>
    @override
    bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
        switch (ruleIndex) {
            <parser.sempredFuncs.values:{f}
        case <f.ruleIndex>:
            return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
        }
    }
</if(sempredFuncs)>
</if(parser.rules)>
</endif>
</Parser_>
```

```

    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
<funcs:{ func | <if(func.ruleCtx)><func.ruleCtx><endif>}; separator="\n\n">

<funcs:{ func | <if(func.altLabelCtxs)><func.altLabelCtxs:{1 | <func.altLabelCtxs.(l)>};
separator="\n\n"><endif>}>
>>

vocabulary(literalNames, symbolicNames) ::= <<
static final List<String> _LITERAL_NAMES = [
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final List<String> _SYMBOLIC_NAMES = [
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final Vocabulary VOCABULARY = VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

@Override
Vocabulary get vocabulary {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:
        _<f.name>_action(_localctx, actionIndex);
        break;}; separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
    }
}

```

```

return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
<p.name>(TokenStream input) : super(input) {
  interpreter = ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

/// This generates a private method since the actionIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleActionFunction(r, actions) ::= <<
void _<r.name>_action(<r.ctxType> _localctx, int actionIndex) {
  switch (actionIndex) {
    <actions:{index|case <index>: <actions.(index)> break;}; separator="\n">
  }
}
>>

/// This generates a private method since the predIndex is generated, making an
/// overriding implementation impossible to maintain.
RuleSempredFunction(r, actions) ::= <<
bool _<r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|case <index>: return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><endif><currentRule.ctxType>
<currentRule.name><(args; separator=", "> {
  dynamic _localctx = <currentRule.ctxType>(context, state<currentRule.args:{a | , <a.name>}>);
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">

```

```

    <namedActions.after>
  } <if(exceptions)> <exceptions; separator="\n"><else>on RecognitionException catch (re) {
    _localctx.exception = re;
    errorHandler.reportError(this, re);
    errorHandler.recover(this, re);
  }<endif> finally {
    <finallyAction>
    exitRule();
  }
  return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<currentRule.ctxType> <currentRule.name>([int _p = 0]<args: {a | , <a>}>) {
  final _parentctx = context;
  final _parentState = state;
  dynamic _localctx = <currentRule.ctxType>(context, _parentState<currentRule.args: {a | , <a.name>}>);
  var _prevctx = _localctx;
  var _startState = <currentRule.startState>;
  enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  } on RecognitionException catch (re) {
    _localctx.exception = re;
    errorHandler.reportError(this, re);
    errorHandler.recover(this, re);
  } finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
  }
  return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(_localctx);<endif>

```

```

enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
state = <choice.stateNumber>;

```

```

errorHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  state = <choice.loopBackStateNumber>;
  errorHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  state = <choice.stateNumber>; <! loopback/exit decision !>
  errorHandler.sync(this);
  <iteration>
} while (<loopExpr>);
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
  <alts:{ alt |
  case <i>:
    <alt>
    break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
  <alts:{ alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if (_alt == 1<if(!choice.ast.greedy)> + 1<endif>) {
    <iteration>
    <alts> <! should only be one !>
}
state = <choice.loopBackStateNumber>;
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)> + 1<endif>:
    <alt>
break;}; separator="\n">
default:
    <error>
}
state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER);
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({ <offsetShift(s.varName, bits.shift)>})> && ((BigInt.one \<< <offsetShift(s.varName,
bits.shift)>) & (<bits.ttypes:{ ttype | (BigInt.one \<< <offsetShift({TOKEN_<ttype>}, bits.shift)>)}); separator=" |
">)) != BigInt.zero)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName> == TOKEN_<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{ t | case TOKEN_<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
state = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><r.name><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(TOKEN_<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>tokenStream.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif><expr>) {
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>errorHandler.recoverInline(this);
} else {

```



```

if ( tokenStream.LA(1)==IntStream.EOF ) matchedEOF = true;
errorHandler.reportMatch(this);
consume();
}
>>

Wildcard(w) ::= <<
state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
state = <p.stateNumber>;
if (!(<chunks>)) {
    throw FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
    <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar) ::= "type = <arg>);"
LexerChannelCommand(arg, grammar) ::= "channel = <arg>);"
LexerModeCommand(arg, grammar) ::= "mode_ = <arg>);"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"

```

```

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>?.text"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.channel : 0"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.tokenIndex : 0"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != null ? int.parse(<ctx(t)>.<t.label>.text) : 0"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>?.start"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>?.stop"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != null ? tokenStream.getTextRange(<ctx(r)>.<r.label>.start,
<ctx(r)>.<r.label>.stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "tokenStream.getTextRange(_localctx.start, tokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name> = <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = List<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = List<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::= <<
TerminalNode <t.name>() => getToken(<parser.name>.TOKEN_<t.name>, 0);
>>
ContextTokenListGetterDecl(t) ::= <<
List<TerminalNode> <t.name>s() => getTokens(<parser.name>.TOKEN_<t.name>);
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
TerminalNode <t.name>(int i) => getToken(<parser.name>.TOKEN_<t.name>, i);
>>

ContextRuleGetterDecl(r) ::= <<
<r.ctxName> <r.name>() => getRuleContext\<<r.ctxName>\>(0);
>>

ContextRuleListGetterDecl(r) ::= <<
List\<<r.ctxName>\> <r.name>s() => getRuleContexts\<<r.ctxName>\>(0);
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.ctxName> <r.name>(int i) => getRuleContext\<<r.ctxName>\>(i);
>>

LexerRuleContext() ::= "RuleContext"

/// The rule context name is the rule followed by a suffix; e.g.,
/// r becomes rContext.
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = tokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = tokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{ a | <a>;}; separator="\n">
<getters:{ g | <g>;}; separator="\n">
<struct.name>([ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>}]) : super(parent,
invokingState)<if(struct.ctorAttrs)> {
<struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">
}<else>;<endif>

@Override
int get ruleIndex => RULE_<struct.derivedFromName>;
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
@Override
void copyFrom(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif> ctx) {
super.copyFrom(ctx);
<struct.attrs:{ a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n">
}
<endif>

```

```

<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {
  <attrs:{a | <a>;}; separator="\n">
  <getters:{g | <g>;}; separator="\n">
  <struct.name>(<struct.parentRule; format="cap">Context ctx) { copyFrom(ctx); }
  <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@override
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
  if (listener is <parser.grammarName>Listener)
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@override
T accept\<T>(ParseTreeVisitor\<T> visitor) {
  if (visitor is <parser.grammarName>Visitor\<T>) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
    return visitor.visitChildren(this);
  }
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

// If we don't know location of label def x, use this template
labelref(x) ::= "<if(!x.isLocal)>_localctx.<endif><x.name>"

```

```

// For any action chunk, what is correctly-typed context struct ptr?
ctx(actionChunk) ::= "_localctx"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name> = $<src>.<name>;"
recRuleSetStopToken() ::= "context.stop = tokenStream.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);

```

```

<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx);
context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if (parseListeners != null) triggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
part of <lexerFile.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';
<endif>
<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

<if(namedActions.definitions)><namedActions.definitions><endif>

class <lexer.name> extends <superClass; null="Lexer"> {
    static final checkVersion = () => RuntimeMetaData.checkVersion('<lexerFile.ANTLRVersion>',
RuntimeMetaData.VERSION);

    static final List<DFA> _decisionToDFA = List.generate(
        _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
    static final PredictionContextCache _sharedContextCache = PredictionContextCache();
    <if(lexer.tokens)>
    static const int
        <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(lexer.channels)>
    static const int
        <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(rest(lexer.modes)>
    static const int
        <rest(lexer.modes){m | <m> = <i>}; separator=", ", wrap, anchor>;
    <endif>

    @override
    final List<String> channelNames = [
        'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
    ];

    @override
    final List<String> modeNames = [
        <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
    ];

    @override
    final List<String> ruleNames = [
        <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
    ];

    <vocabulary(lexer.literalNames, lexer.symbolicNames)>

    <namedActions.members>

    <lexer.name>(CharStream input) : super(input) {
        interpreter = LexerATNSimulator(_ATN, _decisionToDFA, _sharedContextCache, recog: this);
    }

    @override
    String get serializedATN => _serializedATN;

```

```

@override
String get grammarFileName => '<lexer.grammarFileName>';

@override
ATN getATN() { return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
static const int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|static final String _serializedATNSegment<i0> =
'<segment; wrap={'\n<t>'}>; separator="\n">
static final String _serializedATN = [
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
].join();
<else>
<! only one segment, can be inlined !>
static const String _serializedATN = '<model.serialized; wrap={'\n<t>'}>;
<endif>
static final ATN _ATN =
  ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

/// Using a type to init value map, try to init a type; if not in table
/// must be an object, default value is "null".
initValue(typeName) ::= <<
<dartTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".dart"

Found in path(s):
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*

```

```

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/

```

```
group LeftRecursiveRules;
```

```
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=
```

```

<<
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
: ( { } <primaryAlts: { alt | <alt.altText> }; separator="\n    | ">
  )
  (
    <opAlts; separator="\n    | ">
  )*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>|> <alt.altText>
>>

```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2015 Dan McLaughlin, Mike Lischke

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* 1. Redistributions of source code must retain the above copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

* 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2012-2016 Terence Parr

* Copyright (c) 2012-2016 Sam Harwell

* Copyright (c) 2014 Eric Vergnaud

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

```

*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.

```

```

* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"{}" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

```

```

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
enter<lname; format="cap">(ctx) {
\}

// Exit a parse tree produced by <file.parserName>#<lname>.
exit<lname; format="cap">(ctx) {
\}

}; separator="\n">

}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
visit<lname; format="cap">(ctx) {
    return this.visitChildren(ctx);
\}

}; separator="\n">

}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>

```

```

// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

const sharedContextCache = new antlr4.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName; format="java-escape">";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
    super(input);
    this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
    this.ruleNames = <parser.name>.ruleNames;
    this.literalNames = <parser.name>.literalNames;
    this.symbolicNames = <parser.name>.symbolicNames;
    <namedActions.members>
  }

  get atn() {
    return atn;
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
    switch(ruleIndex) {
      <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
      default:
        throw "No predicate with index:" + ruleIndex;
    }
  }
  <sempredFuncs.values; separator="\n">
<endif>

```

```

<funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>;}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>;}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f}
case <f.ruleIndex>:
this.<f.name>_action(localctx, actionIndex);
break;}; separator="\n">
default:
throw "No registered action for:" + ruleIndex;
}
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
switch (ruleIndex) {
<recog.sempredFuncs.values:{f} case <f.ruleIndex>:
return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
default:

```

```

        throw "No registered predicate for:" + ruleIndex;
    }
};

<sempredFuncs.values; separator="\n">
<endif>
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
    switch (actionIndex) {
        <actions: {index|
        case <index>:
            <actions.(index)>
            break;}; separator="\n">
        default:
            throw "No registered action for:" + actionIndex;
        }
    };
};
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
    switch(predIndex) {
        <actions: {index| case <index>:
        return <actions.(index)>;}; separator="\n">
        default:
            throw "No predicate with index:" + predIndex;
        }
    };
};
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<currentRule.name><(currentRule.args: {a | <a.name>}; separator=", ">) {
    let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args: {a | , <a.name>}>);

```

```

this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
}<if(exceptions)>
<exceptions; separator="\n">
<else> catch (re) {
  if(re instanceof antlr4.error.RecognitionException) {
    localctx.exception = re;
    this._errHandler.reportError(this, re);
    this._errHandler.recover(this, re);
  } else {
    throw re;
  }
}<endif> finally {
  <finallyAction>
  this.exitRule();
}
return localctx;
}

```

>>

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=

```

<<

```

<currentRule.name>(<_p<if(currentRule.args)>, <args:{ a | , <a>}><endif>) {
  if(<_p===undefined> {
    <_p = 0;
  }
  const <_parentctx = this._ctx;
  const <_parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, <_parentState<args:{ a | , <a.name>}>>);
  let <_prevctx = localctx;
  const <_startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, <_p);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  } catch( error) {
    if(error instanceof antlr4.error.RecognitionException) {

```

```

        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
    } else {
        throw error;
    }
} finally {
    <finallyAction>
    this.unrollRecursionContexts(_parentctx)
}
return localctx;
}

```

>>

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    break;}; separator="\n">
default:
    <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>

```



```

break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);

```

```

switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
    <error>

```

```

}
this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
this._errHandler.sync(this);
_alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">)) != 0
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <labelref(1)> =
}><endif>this.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

```

```

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>this.match(<parser.name>.<m.name>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(1)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr><else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

```

```

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>this.matchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"

```

```

ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

```

```

NonLocalAttrRef(s) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

```

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

```

```

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

```

```

ContextTokenGetterDecl(t) ::= <<
<t.name>() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
<t.name>_list() {
    return this.getTokens(<parser.name>.<t.name>);
}
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTokens(<parser.name>.<t.name>);
    } else {
        return this.getToken(<parser.name>.<t.name>, i);
    }
};
>>

```

```

ContextRuleGetterDecl(r) ::= <<
<r.name>() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

```

```

// should never be called
ContextRuleListGetterDecl(r) ::= <<
<r.name>_list() {
    return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

    constructor(parser, parent, invokingState<struct.ctorAttrs:{ a | , <a.name>}> ) {
        if(parent===undefined) {
            parent = null;
        }
        if(invokingState===undefined || invokingState===null) {
            invokingState = -1;
        }
        super(parent, invokingState);
        this.parser = parser;

```

```

    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{ a | <a>}; separator="\n">
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name> || null;}; separator="\n">
  }

<getters:{ g | <g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{ a | this.<a.name> = ctx.<a.name>}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {
    super(parser);
    <attrs:{ a | <a>}; separator="\n">
    super.copyFrom(ctx);
  }

  <getters:{ g | <g>}; separator="\n\n">

  <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
  }
}
}

>>

```



```

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
    return visitor.visitChildren(this);
  }
}
}

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;

```

>>

```
recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
  this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';
```

```
<namedActions.header>
```

```
<lexer>
```

>>

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>
```

```
<atn>
```

```
const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
```

```
const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );
```

```
export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif> {
```

```
  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
  static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
  static literalNames = [ <lexer.literalNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <lexer.symbolicNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor> ];
```

```
  constructor(input) {
    super(input)
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
    <namedActions.members>
  }
}
```

```

    get atn() {
        return atn;
    }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.channels)>
<lexer.channels:{c | <lexer.name>.<c> = <lexer.channels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes):{m | <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

const serializedATN = ["<model.serialized; wrap={",<\n>  ">"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

Found in path(s):
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr

```

* Copyright (c) 2012-2016 Sam Harwell
 * Copyright (c) 2015 Janyou
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
  "int": "Int",
  "float": "Float",
  "long": "Int64",
  "double": "Double",
  "bool": "Bool",
  "boolean": "Bool",
  default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
```

```
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
<!package <file.genPackage>;!>  
<endif>  
<namedActions.header>  
import Antlr4  
  
<parser>  
>>
```

```
ListenerFile(file, header, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
<!package <file.genPackage>;!>  
<endif>  
<header>  
import Antlr4  
  
/**  
 * This interface defines a complete listener for a parse tree produced by  
 * { @link <file.parserName> }.  
 */  
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {  
  <file.listenerNames: {Iname |  
/**  
<if(file.listenerLabelRuleNames.(Iname))>  
 * Enter a parse tree produced by the { @code <Iname>\}  
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.  
<else>  
 * Enter a parse tree produced by { @link <file.parserName>#<Iname>\}.  
<endif>  
- Parameters:  
  - ctx: the parse tree  
*/  
func enter<Iname; format="cap">(_ ctx: <file.parserName>.<Iname; format="cap">Context)  
/**  
<if(file.listenerLabelRuleNames.(Iname))>  
 * Exit a parse tree produced by the { @code <Iname>\}  
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.  
<else>  
 * Exit a parse tree produced by { @link <file.parserName>#<Iname>\}.  
<endif>  
- Parameters:  
  - ctx: the parse tree  
*/
```

```

func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)); separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Listener },
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \ }
    <file.listenerNames:{lname |

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \ }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \ } ; separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>

```

```

*/
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>}}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<lname>}}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
  fatalError(#function + " must be overridden")

```

```

\}
}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
  <file.visitorNames:{ lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}; separator="\n">
}
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
</*!/@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

```

```

  internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()

```



```

    let length = <parser.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
        <!-- decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i);!>
        decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<if(parser.tokens)>
<accessLevelNotOpen(parser)>
enum Tokens: Int {
    case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>

<accessLevelNotOpen(parser)>
<if(parser.rules)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
<endif>

<accessLevelNotOpen(parser)>
static let ruleNames: [String] = [
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames,
    accessLevelNotOpen(parser))>

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames }

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> String { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(semprdfFuncs)>
override <accessLevelOpenOK(parser)>

```

```

func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
  switch (ruleIndex) {
    <parser.sempredFuncs.values: {f}
  case <f.ruleIndex>:
    return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
      default: return true
    }
    <!return true;!>
  }
  <sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
  <literalNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
  switch (ruleIndex) {
    <recog.actionFuncs.values: {f}
  case <f.ruleIndex>:
    <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
    }; separator="\n">
    default: break
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

```

```

override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}
  case <f.ruleIndex>:
    return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
  default: return true
  }
  <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<

```

```

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

```

```

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("4.9.2", RuntimeMetaData.VERSION)
  try super.init(input)
  _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

```

```

>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?, _ actionIndex: Int) {
  switch (actionIndex) {
    <actions:{index|
  case <index>:
    <actions.(index)>
    }; separator="\n">
  default: break
  }
}
}
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.

```

```

*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_localctx: <r.ctxType>!, _predIndex: Int) throws -> Bool {
switch (predIndex) {
<actions: {index|
case <index>:return <actions.(index)>; separator="\n">
default: return true
}
<!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs: {l | <altLabelCtxs.(l)>; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers: {f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name><(if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args: {a | ,
<a.name>}>>)
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">
defer {
<finallyAction>
try! exitRule()
}
do {
<if(currentRule.hasLookaheadBlock)>
var _alt:Int
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch ANTLRException.recognition(let re) {
_localctx.exception = re
_errHandler.reportError(self, re)
try _errHandler.recover(self, re)
}
<endif>

return _localctx
}

```

>>

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,  
namedActions,finallyAction,postamble) ::=
```

<<

```
<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.l>} ; separator="\n">
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>  
func <currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {  
return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)  
}
```

```
@discardableResult
```

```
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
```

```
let _parentctx: ParserRuleContext? = _ctx
```

```
let _parentState: Int = getState()
```

```
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,  
<a.name>}>)
```

```
var _prevctx: <currentRule.ctxType> = _localctx
```

```
let _startState: Int = <currentRule.startState>
```

```
try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
```

```
<namedActions.init>
```

```
<locals; separator="\n">
```

```
defer {
```

```
    <finallyAction>
```

```
    try! unrollRecursionContexts(_parentctx)
```

```
}
```

```
do {
```

```
<if(currentRule.hasLookaheadBlock)>
```

```
    var _alt: Int
```

```
<endif>
```

```
<code>
```

```
<postamble; separator="\n">
```

```
<namedActions.after>
```

```
}
```

```
catch ANTLRException.recognition(let re) {
```

```
    _localctx.exception = re
```

```
    _errHandler.reportError(self, re)
```

```
    try _errHandler.recover(self, re)
```

```
}
```

```
return _localctx;
```

```
}
```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
```

```

format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break }; separator="\n">
default:
break
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<else if ( !(<followExpr> ) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>)
  try _errHandler.sync(self)
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  <iteration>
} while (<loopExpr>)
>>

```

// LL(*) stuff

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
  <alts:{alt |
case <i>:
  <alt>
break}; separator="\n">
default: break
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
  <alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>

```

```

break }; separator="\n">
default: break
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

```

```

TestSetInline(s) ::= <<
<!<s.bitsets:{ bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in

```



```

    <if(rest(s.bitsets))>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>>
    <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>>; separator="\n">
    return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ () -> Bool in
    <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
    <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
    <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
    <!let test1: Int64 = (Int64(1) \<< temp)!>
    <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
    <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>;
separator="\n">!>
    let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">]
    <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
    return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<

```

```

<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t | case .<t>:} ; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{1 | <labelref(l)> = assignmentValue} ; separator="\n">
  }()
<else>try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<endif>
>>

```

```

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{1 | <labelref(l)> = assignmentValue} ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
  Token<endif>
}
else {
  _errHandler.reportMatch(self)
  try consume()
}
>>

```

```

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>

```

```

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)    ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg)    ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"

```

```

TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\"): \"\)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\"): \"\)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>() -> TerminalNode? {
return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
}
>>

ContextTokenListGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>() -> [TerminalNode] {
return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
}
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
<accessLevelOpenOK(parser)>
func <t.name>(_ i:Int) -> TerminalNode? {
return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)

```

```

}
>>
ContextRuleGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, 0)
  }
>>

ContextRuleListGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> [<r.ctxName>] {
    return getRuleContexts(<r.ctxName>.self)
  }
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>(_ i: Int) -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, i)
  }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
  superClass={ParserRuleContext}) ::= <<

  <accessLevelNotOpen(parser)> class <struct.name>:
  <if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>;
  separator=", "<endif> {
  <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
  super.init(parent, invokingState) }<endif> !>
  <if(ctorAttrs)>
  <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | ,

```

```

_ <a>}) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{ a | self.<a.name> = <a.name>; separator="\n">
}
<endif>

override <accessLevelOpenOK(parser)>
func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
}
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
<accessLevelOpenOK(parser)>
override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.name>
  <struct.attrs:{ a | self.<a.name> = ctx.<a.name>; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.name>: <currentRule.name; format="cap">Context {
  <attrs:{ a | <accessLevelNotOpen(parser)> var <a>; separator="\n">
  <getters:{ g | <g>; separator="\n">

  <accessLevelNotOpen(parser)>
  init(_ ctx: <currentRule.name; format="cap">Context) {
    super.init()
    copyFrom(ctx)
  }
  <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if let listener = listener as? <parser.grammarName>Listener {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
  }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>

```

```

func accept<T>(<_ visitor: ParseTreeVisitor<T>) -> T? {
  if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
>>

```

```

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

```

```

/** If we don't know location of label def x, use this template (<_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

```

```

// used for left-recursive rules

```

```

recRuleAltPredicate(ruleName,opPrec) ::= "precpred(<_ctx, <opPrec>)"

```

```

recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"

```

```

recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<

```

```

  _localctx = <ctxName>Context(<_parentctx, <_parentState>);

```

```

  <if(label)>

```

```

  <if(isListLabel)>

```

```

    _localctx.<label>.append(<_prevctx>)

```

```

  <else>

```

```

    _localctx.<label> = <_prevctx>

```

```

  <endif>

```

```

<endif>

```

```

<if(label)>_localctx.<label> = <_prevctx>;<endif>

```

```

try pushNewRecursionContext(<_localctx, <_startState, <parser.name>.RULE_<ruleName>)

```

```

>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<

```

```

  _localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(<_parentctx,
  _parentState))

```

```

  <if(label)>

```

```

  <if(isListLabel)>

```

```

    (<_localctx as! <currentAltLabel; format="cap">Context).<label>.append(<_prevctx>)

```

```

  <else>

```

```

    (<_localctx as! <currentAltLabel; format="cap">Context).<label> = <_prevctx>

```

```

  <endif>

```

```

<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx)
  _ctx = _localctx
  _prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

internal static var _decisionToDFA: [DFA] = {
  var decisionToDFA = [DFA]()
  let length = <lexer.name>._ATN.getNumberOfDecisions()
  for i in 0..<length {
    <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i), i);!>
    decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i), i))
  }
  return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
<if(lexer.tokens)>
static let <lexer.tokens>:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<endif>

```



```

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
  <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
  accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
  RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

```

```

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"

Found in path(s):
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD licence"]
Copyright (c) 2006 Kay Roepke

```

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

```
location(file, line, column) ::= "<file>(<line>,<column>)"
```

```
message(id, text) ::= "error <id> : <text>"
```

```
report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
```

No license file was found, but licenses were detected in source scan.

/*

[The "BSD licence"]

Copyright (c) 2005-20012 Terence Parr

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRParser.java

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2016, Mike Lischke

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* 1. Redistributions of source code must retain the above copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

* 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

* Use of this file is governed by the BSD 3-clause license that

* can be found in the LICENSE.txt file in the project root.

*/

/**

[The "BSD license"]

Copyright (c) 2011 Cay Horstmann

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/GraphicsSupport.java

No license file was found, but licenses were detected in source scan.

/*

* [The "BSD license"]

* Copyright (c) 2012-2016 Terence Parr

* Copyright (c) 2012-2016 Sam Harwell

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* 1. Redistributions of source code must retain the above copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

* 3. The name of the author may not be used to endorse or promote products

* derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

```
phpTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "long": "0",
```

```
  "float": "0.0",
```

```
  "double": "0.0",
```

```
  "boolean": "false",
```

```
  default: "null"
```

```
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<parser>
```

```
>>
```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @see <file.parserName> }.
 */
interface <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames: {Iname |
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Enter a parse tree produced by the `<Iname>`
 * labeled alternative in { @see <file.parserName>::<file.listenerLabelRuleNames.(Iname)>() }.
<else>
 * Enter a parse tree produced by { @see <file.parserName>::<Iname>() }.
<endif>
 * @param $context The parse tree.
 */
public function enter<Iname; format="cap">(Context\<Iname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Exit a parse tree produced by the `<Iname>` labeled alternative
 * in { @see <file.parserName>::<file.listenerLabelRuleNames.(Iname)>() }.
<else>
 * Exit a parse tree produced by { @see <file.parserName>::<Iname>() }.
<endif>
 * @param $context The parse tree.
 */
public function exit<Iname; format="cap">(Context\<Iname; format="cap">Context $context) : void;};
separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

```

```

use Antlr\Antlr4\Runtime\ParserRuleContext;
use Antlr\Antlr4\Runtime\Tree\ErrorNode;

```

```

use Antlr\Antlr4\Runtime\Tree\TerminalNode;

/**
 * This class provides an empty implementation of { @see <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
    <file.listenerNames> {lname |
/**
 * { @inheritdoc\}
 *
 * The default implementation does nothing.
 */
public function enter<lname; format="cap">(Context\<lname; format="cap">Context $context) : void {}

/**
 * { @inheritdoc\}
 *
 * The default implementation does nothing.
 */
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void {}};
separator="\n">

/**
 * { @inheritdoc\}
 *
 * The default implementation does nothing.
 */
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
 * { @inheritdoc\}
 *
 * The default implementation does nothing.
 */
public function exitEveryRule(ParserRuleContext $context) : void {}

/**
 * { @inheritdoc\}
 *
 * The default implementation does nothing.
 */
public function visitTerminal(TerminalNode $node) : void {}

/**
 * { @inheritdoc\}

```



```

*
* The default implementation does nothing.
*/
public function visitErrorNode(ErrorNode $node) : void {
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
<file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
* Visit a parse tree produced by the `<Iname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(Iname)>()}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<Iname>()}.
<endif>
*
* @param Context\<Iname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<Iname; format="cap">(Context\<Iname; format="cap">Context $context);
separator="\n\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\AbstractParseTreeVisitor;

/**

```

```

* This class provides an empty implementation of { @see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
    <file.visitorNames:{ lname |
/**
* { @inheritdoc\}
*
* The default implementation returns the result of calling
* { @see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\|<lname; format="cap">Context $context)
{
    return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\Antlr4\Runtime\Atn\ATN;
use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;
use Antlr\Antlr4\Runtime\Atn\ParserATNSimulator;
use Antlr\Antlr4\Runtime\Dfa\DFA;
use Antlr\Antlr4\Runtime>Error\Exceptions\FailedPredicateException;
use Antlr\Antlr4\Runtime>Error\Exceptions\NoViableAltException;
use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;
use Antlr\Antlr4\Runtime>Error\Exceptions\RecognitionException;
use Antlr\Antlr4\Runtime\RuleContext;
use Antlr\Antlr4\Runtime\Token;
use Antlr\Antlr4\Runtime\TokenStream;
use Antlr\Antlr4\Runtime\Vocabulary;
use Antlr\Antlr4\Runtime\VocabularyImpl;

```

```

use Antlr4\Runtime\RuntimeMetaData;
use Antlr4\Runtime\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <parser.name> extends <superClass; null="Parser">
{
<if(parser.tokens)>
public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

<if(parser.rules)>
public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

<parser:(ctor)>

private static function initialize() : void
{
if (self::$atn !== null) {
return;
}

RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

$atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
$decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}
}

```

```

}

self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}
<if(funcs)>

<funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
    switch ($ruleIndex) {
    <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:
        return true;
}

```

```

    }
}

<sempredFuncs.values; separator="\n\n">
<endif>
}
}

namespace <if(file.genPackage)><file.genPackage>\<endif>Context {
    use Antlr\Antlr4\Runtime\ParserRuleContext;
    use Antlr\Antlr4\Runtime\Token;
    use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;
    use Antlr\Antlr4\Runtime\Tree\TerminalNode;
    use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>

    <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

    <func.altLabelCtxs:{l | <func.altLabelCtxs(l)>}; separator="\n\n"><endif> }; separator="\n\n">
    }
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
 * @var array<string|null>
 */
private const LITERAL_NAMES = [
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
private const SYMBOLIC_NAMES = [
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void
{
    switch ($ruleIndex) {
        <recog.actionFuncs.values:{f}

```

```

case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
}
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
  switch ($ruleIndex) {
    <recog.sempredFuncs.values:{f|
      case <f.ruleIndex>:
        return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
    }

    return true;
  }
  <sempredFuncs.values; separator="\n\n">
  <endif>
  >>

parser_ctor(p) ::= <<
public function __construct(TokenStream $input)
{
  parent::__construct($input);

  self::initialize();

  $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
 * This generates a private method since the actionIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
  switch ($actionIndex) {
    <actions:{index|
      case <index>:
        <actions.(index)>

    break;}; separator="\n\n">

```

```

}
}
>>

/**
 * This generates a private method since the predicateIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(Context\<r.ctxType> $localContext, int $predicateIndex) : bool
{
switch ($predicateIndex) {
<actions:{index|
case <index>:
return <actions.(index)>;}; separator="\n\n">
}

return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(args;
separator=", ">) : Context\<currentRule.ctxType>
{
$localContext = new Context\<currentRule.ctxType>($this->ctx, $this->getState())<currentRule.args:{a | ,
$a.name}>>);

$this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n\n">

try {
<code>
<postamble; separator="\n\n">
<namedActions.after>
}<if(exceptions)><exceptions; separator="\n\n"><else> catch (RecognitionException $exception) {
$localContext->exception = $exception;
$this->errorHandler->reportError($this, $exception);
$this->errorHandler->recover($this, $exception);
}<endif> finally {
<finallyAction>
$this->exitRule();
}
}

```

```

    return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble) ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>
{
    return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
 * @throws RecognitionException
 */
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :
Context\<currentRule.ctxType>
{
    $parentContext = $this->ctx;
    $parentState = $this->getState();
    $localContext = new Context\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
    $previousContext = $localContext;
    $startState = <currentRule.startState>;
    $this->enterRecursionRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>,
$precedence);
    <namedActions.init>
    <locals; separator="\n">

    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch (RecognitionException $exception) {
        $localContext->exception = $exception;
        $this->errorHandler->reportError($this, $exception);
        $this->errorHandler->recover($this, $exception);
    } finally {
        <finallyAction>
        $this->unrollRecursionContexts($parentContext);
    }

    return $localContext;
}

```


>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\|<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">
```

```
switch ($this->input->LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n\n">
```

```
default:
  <error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n\n">
```

```
default:
  break;
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">
```

```
if (<expr>) {  
  <alts; separator="\n">  
}  
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">  
while (<loopExpr>) {  
  <alts; separator="\n">  
  $this->setState(<choice.loopBackStateNumber>);  
  $this->errorHandler->sync($this);  
  <iteration>  
}  
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>  
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">  
do {  
  <alts; separator="\n">  
  $this->setState(<choice.stateNumber>); <! loopback/exit decision !>  
  $this->errorHandler->sync($this);  
  <iteration>  
} while (<loopExpr>);  
>>
```

```
// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<  
$this->setState(<choice.stateNumber>);  
$this->errorHandler->sync($this);  
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>  
<preamble; separator="\n">
```

```
switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {  
  <alts:{ alt |  
case <i>:  
  <alt>  
break;}; separator="\n\n">  
}  
>>
```

```

OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{ alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
  break;}; separator="\n\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

```

```

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

```

```

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
}

```

```

$this->setState(<choice.loopBackStateNumber>);
$this->errorHandler->sync($this);

```

```

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

```

```

$alt = 1<if(!choice.ast.greedy)>+1<endif>;

```

```

do {
  switch ($alt) {
  <alts:{ alt|
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
  break;}; separator="\n\n">
  default:
    <error>
  }
}

```

```

$this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>}) && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftConst(ttype, bits.shift)>)} ; separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<$><shiftAmount> - <offset>)<else><$><shiftAmount><endif>
%>

offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | $<s.varName> === self::<ttype>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case self::<t>}; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name>;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif>
<argExprsChunks>);
>>

```

```

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

```

```

<if(m.labels)><m.labels:{1 | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

```

```

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
    if ($this->input->LA(1) === Token::EOF) {
        $this->matchedEOF = true;
    }

```

```

$this->errorHandler->reportMatch($this);
$this->consume();
}
>>

```

```

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>$this->matchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

```

```

if (!(<chunks>)) {
    throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>);"
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>);"
LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>);"
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>);"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText() : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"

```

```

RulePropertyRef_text(r) ::= "<ctx(r)>-><r.label> != null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>->start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r) ::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r) ::= "$localContext->stop"
ThisRulePropertyRef_text(r) ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "$localContext"
ThisRulePropertyRef_parser(r) ::= "$this"

NonLocalAttrRef(s) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[] = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
<struct.tokenListDecls : {d | /**
* @var array<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
<struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
<struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>

```

```

<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
<struct.ruleContextListDecls : { d | /**
* @var array<<d.ctxName>>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
<struct.attributeDecls : { d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{
    return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t) ::= <<
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
/**
* @return array<<TerminalNode>|TerminalNode|null
*/
public function <t.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTokens(<parser.name>::<t.name>);
    }

    return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r) ::= <<
public function <r.name>() : ?<r.ctxName>
{

```



```

return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
/**
 * @return array<<r.ctxName>>|<r.ctxName>|null
 */
public function <r.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTypedRuleContexts(<r.ctxName>::class);
    }

    return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
 * The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
{
    parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

    <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">

```

```

<endif>
}

public function getRuleIndex() : int
{
    return <parser.name>::RULE_<struct.derivedFromName>;
}
<if(getters)>

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public function copyFrom(ParserRuleContext $context) : void
{
    parent::copyFrom($context);

    <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
}
<endif>
<if(dispatchMethods)>

    <dispatchMethods; separator="\n\n">
<endif>
<if(extensionMembers)>

    <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
    <PropertiesDecl(struct)>
    public function __construct(<struct.parentRule; format="cap">Context $context)
    {
        parent::__construct($context);

        $this->copyFrom($context);
    }
}
<if(getters)>

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

    <dispatchMethods; separator="\n\n">
<endif>

```

```

}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener) : void
{
  if ($listener instanceof <parser.grammarName>Listener) {
    $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
  }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
  if ($visitor instanceof <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
  }

  return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name) ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()      ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

```

```

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

```

```

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
    $this->triggerExitRuleEvent();
}

```

```

$previousContext = $localContext;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
use Antlr\\Antlr4\\Runtime\\Lexer;
use Antlr\\Antlr4\\Runtime\\CharStream;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;

```

```

use Antlr4\Runtime\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <lexer.name> extends <superClass; null="Lexer">
{
<if(lexer.tokens)>
public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

<if(lexer.channels)>
public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>

<if(rest(lexer.modes))>
public const <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const CHANNEL_NAMES = [
'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c | '<c>'}; separator=", ",
wrap, anchor><endif>
];

/**
 * @var array<string>
 */
public const MODE_NAMES = [
<lexer.modes:{m | '<m>'}; separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>

```

<endif>

```
public function __construct(CharStream $input)
{
    parent::__construct($input);

    self::initialize();

    $this->interp = new LexerATNSimulator($this, self::$satn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
    if (self::$satn !== null) {
        return;
    }

    RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

    $satn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

    $decisionToDFA = [];
    for ($i = 0, $count = $satn->getNumberOfDecisions(); $i < $count; $i++) {
        $decisionToDFA[] = new DFA($satn->getDecisionState($i), $i);
    }

    self::$satn = $satn;
    self::$decisionToDFA = $decisionToDFA;
    self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}

public function getGrammarFileName() : string
{
    return '<lexer.grammarFileName>';
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}
```

```

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

/**
 * @return array<string>
 */
public function getChannelNames() : array
{
    return self::CHANNEL_NAMES;
}

/**
 * @return array<string>
 */
public function getModeNames() : array
{
    return self::MODE_NAMES;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    return self::vocabulary();
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    <model.segments:{segment| "<segment; wrap={" .<\n>"}>"}; separator=" .\n">;
<else>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    "<model.serialized; wrap={" .<\n>  "}>";

```

```
<endif>
>>

/**
 * Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is `null`.
 */
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".php"
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```



```

tree grammar BlockSetTransformer;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
    output      = AST;
    filter      = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
}

```

```

}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+)
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+)
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption

```

```
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* Copyright (c) 2014 Eric Vergnaud
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
```

```

*/

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

}; separator="\n">

>>

VisitorFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | u<t>}; null="u"\<INVALID>\'", separator=", ", wrap, anchor ]

```

```

symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor ]

<if(parser.rules)>
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
<endif>

ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor ]

EOF = <TokenLabelType>.EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(sembredFuncs)>
def sembred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
        self._predicates = dict()
<parser.sembredFuncs.values:{ f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sembred }; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sembredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sembredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{ f |
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)

```

```

    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f}
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
    <actions:{index|
    <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
    <elseif(rest(actions))>
        elif actionIndex == <index>:
            <actions.(index)>
    <endif> }; separator="\n">

```

```
>>
```

```
/* This generates a private method since the predIndex is generated, making an  
* overriding implementation impossible to maintain.  
*/
```

```
RuleSempredFunction(r, actions) ::= <<  
def <r.name>_sempred(self, localctx, predIndex):  
    <actions:{index|  
<if(first(actions))>  
        if predIndex == <index>:  
            return <actions.(index)>  
<elseif(rest(actions))>  
        elif predIndex == <index>:  
            return <actions.(index)>  
<endif> }; separator="\n">
```

```
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)  
::= <<
```

```
<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):
```

```
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)  
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)  
    <namedActions.init>  
    <locals; separator="\n">  
    try:  
        <code>  
        <postamble; separator="\n">  
        <namedActions.after>  
    <if(exceptions)>  
    <exceptions; separator="\n">  
    <else>  
    except RecognitionException as re:  
        localctx.exception = re  
        self._errHandler.reportError(self, re)  
        self._errHandler.recover(self, re)  
    <endif>  
    finally:  
        <finallyAction>  
        self.exitRule()  
    return localctx
```


>>

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,  
namedActions,finallyAction,postamble) ::=
```

<<

```
<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.l>} ; separator="\n">
```

```
def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
```

```
  _parentctx = self._ctx
```

```
  _parentState = self.state
```

```
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
```

```
  _prevctx = localctx
```

```
  _startState = <currentRule.startState>
```

```
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
```

```
  <namedActions.init>
```

```
  <locals; separator="\n">
```

```
  try:
```

```
    <code>
```

```
    <postamble; separator="\n">
```

```
    <namedActions.after>
```

```
  except RecognitionException as re:
```

```
    localctx.exception = re
```

```
    self._errHandler.reportError(self, re)
```

```
    self._errHandler.recover(self, re)
```

```
  finally:
```

```
    <finallyAction>
```

```
    self.unrollRecursionContexts(_parentctx)
```

```
  return localctx
```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;  
format="cap">Context(self, localctx)<endif>
```

```
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
```

```
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
```

>>

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<locals; separator="\n">
```

```
<preamble; separator="\n">
```

```
<ops; separator="\n">
```

>>

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```
self.state = <choice.stateNumber>
```

```

self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass }; separator="\nel">
else:
  <error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass }; separator="\nel">
else:
  pass
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>

```

```

self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
    self.state = <choice.loopBackStateNumber>

```

```

self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nел">
  else:
    <error>
self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%

```

```

<if(!isZero(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype> }; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{ t | <parser.name>.<t> }; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><(if(argExprsChunks)><endif><endif><argExprsChu
nks)>
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

```

```

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
    <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"

```

```

TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

```

```

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{g | <g>}; separator="\n\n">

```



```

def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx):
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{ a | <a> }; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g> }; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

```

```

import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.channels)>
    <lexer.channels: {c| <c> = <lexer.channels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.modes)>
    <rest(lexer.modes): {m| <m> = <i>}; separator="\n">

<endif>
<if(lexer.tokens)>
    <lexer.tokens: {k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels: {c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

    modeNames = [ <lexer.modes: {m| u"<m>"}; separator=", ", wrap, anchor> ]

    literalNames = [ u"\<INVALID>",
        <lexer.literalNames: {t| u"<t>"}; separator=", ", wrap, anchor> ]

    symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames: {t| u"<t>"}; separator=", ", wrap, anchor> ]

    ruleNames = [ <lexer.ruleNames: {r| u"<r>"}; separator=", ", wrap, anchor> ]

```

```

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None, output=sys.stdout):
    super(<lexer.name>, self).__init__(input, output=output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={ }<\n>    buf.write(u" }>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions

```

* are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```
tree grammar SourceGenTriggers;
options {
language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
}
```

```
@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utills;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}
```

```
@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
this(input);
this.controller = controller;
}
```

```
}
```

```
dummy : block[null, null] ;
```

```
block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+)) ?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
Somos = DefaultOutputModelFactory.list(choice);
}
}
;
```

```
alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```
@init {
boolean outerMost = inContext("RULE BLOCK");
}
@after {
controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;
```

```
alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```
@init {
// set alt if outer ALT only (the only ones with alt field set to Alternative object)
AltAST altAST = (AltAST)retval.start;
if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
```

```

    {SaltCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos;}
| atom[null,false] { $omos = $atom.omos;}
| subrule { $omos = $subrule.omos;}
| ACTION { $omos = controller.action((ActionAST)$ACTION);}
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED);}
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
    $omos = $block.omos;
}
| ( ^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
    List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
    SrcOp blk = $b.omos.get(0);
    CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
    alt.addOp(blk);
    alts.add(alt);
    SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] { $omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) { $omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL

```

```

| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label] {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .) {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```


Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g

No license file was found, but licenses were detected in source scan.

/*

[The "BSD license"]

Copyright (c) 2010 Terence Parr

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ATNBuilder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

* Use of this file is governed by the BSD 3-clause license that

* can be found in the LICENSE.txt file in the project root.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/AttributeResolver.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/SemPred.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ToolMessage.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/SwiftTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LabelType.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ScopeParser.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/SymbolCollector.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Wildcard.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ErrorMessageManager.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/PostScriptDocument.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/RuleElement.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Alternative.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/Target.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/Python2Target.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/PredAST.java

- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Choice.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/UnicodeEscapes.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/AddToLabelList.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/AltAST.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/MatchSet.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ToolANTLRLexer.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/GrammarToken.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/Tool.java
- * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/ModelElement.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/target/CSharpTarget.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/tool/GrammarTransformPipeline.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/misc/EscapeSequenceParsing.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LabelElementPair.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/ParserFile.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/automata/ATNOptimizer.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/semantics/SymbolChecks.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/MatchNotSet.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/BasicFontMetrics.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/ParserFactory.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/parse/ToolANTLRParser.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ErrorType.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/QuantifierAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Lexer.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/LL1Loop.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/MutableInt.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/target/JavaTarget.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/ATNFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/LexerFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/ActionSniffer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Loop.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Attribute.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/v4ParserException.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Rule.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TreeView.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ErrorSeverity.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/target/Python3Target.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LexerFile.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/dbg.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/target/DartTarget.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/SetAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/RetValRef.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TestRig.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Action.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/CharSupport.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/OutputModelController.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/automata/ATNPrinter.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/ListenerFile.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/Graph.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/semantics/AttributeChecks.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/ActionTranslator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/CodeGenerator.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/VisitorFile.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/tool/ast/GrammarRootAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/parse/GrammarASTAdaptor.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/Trees.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/target/CppTarget.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/Utils.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/target/GoTarget.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/StarBlock.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/automata/ParserATNFactory.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/codegen/model/Parser.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/target/PHPTarget.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/misc/FrequencySet.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/LexerGrammar.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/Grammar.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
 jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
 * /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-

jar/org/antlr/v4/codegen/model/TestSetInline.java

No license file was found, but licenses were detected in source scan.

```
/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
tree grammar ATNBuilder;
```

```
options {
```

```
language = Java;
```

```
tokenVocab = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
// filter = true;
```

```
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2010 Terence Parr
```

```
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
```

modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}
```

```
@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}
```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*))?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
)
```

```

    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*))?) (a=alternative {alts.add($a.p);})+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
    {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
    {
        $p = factory.alt(cmds);
    }
;

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
    {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
    {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement    {$p = $labeledElement.p;}
| atom              {$p = $atom.p;}
| subrule           {$p = $subrule.p;}
| ACTION           {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED          {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .)      {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .)     {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET   {$p = factory.charSetLiteral($start);}
;

```

```

astOperand returns [ATNFactory.Handle p]
: atom    {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

```

```

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element)  {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;

```

```

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null]    {$p = $block.p;}
;

```

```

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

```

/** Don't combine with atom otherwise it will build spurious ATN nodes */

```

setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

```

```

atom returns [ATNFactory.Handle p]
: range    {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal    {$p = $terminal.p;}
| ruleref    {$p = $ruleref.p;}
;

```

```

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?)    {$p = factory.ruleRef($RULE_REF);}
| RULE_REF    {$p = factory.ruleRef($RULE_REF);}

```

```
;
range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;
```

```
terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;
```

```
elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ATNBuilder.g

No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
*/
```

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```
edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>
```

```

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
      {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>} ; separator="|">}
      }
    <else>
      <label>
    <endif>
    "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

```

```

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/dot/graphs.stg

```

No license file was found, but licenses were detected in source scan.

```

/*

```

```

* [The "BSD license"]

```

```

* Copyright (c) 2012-2016 Terence Parr

```

```

* Copyright (c) 2012-2016 Sam Harwell

```

```

* All rights reserved.

```

```

*

```

```

* Redistribution and use in source and binary forms, with or without

```

```

* modification, are permitted provided that the following conditions

```

```

* are met:

```

```

*

```

```

* 1. Redistributions of source code must retain the above copyright

```

```

* notice, this list of conditions and the following disclaimer.

```

```

* 2. Redistributions in binary form must reproduce the above copyright

```



```

* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** templates used to generate make-compatible dependencies */

```

```

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>

```

Found in path(s):

```

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/depend.stg
No license file was found, but licenses were detected in source scan.

```

```

/*
* [The "BSD license"]
* Copyright (c) 2012-2016 Terence Parr
* Copyright (c) 2012-2016 Sam Harwell
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.

```

- * 3. The name of the author may not be used to endorse or promote products
- * derived from this software without specific prior written permission.
- *
- * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
- * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
- * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
- * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
- * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
- * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
- * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
- * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
- * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
- * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- */

```
javaTypeInitMap ::= [
    "int": "0",
    "long": "0",
    "float": "0.0f",
    "double": "0.0",
    "boolean": "false",
    "byte": "0",
    "short": "0",
    "char": "0",
    default: "null" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames: {Iname |
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Enter a parse tree produced by the { @code <Iname>\}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
<else>
 * Enter a parse tree produced by { @link <file.parserName>#<Iname>\}.
<endif>
 * @param ctx the parse tree
 */
void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(Iname))>
 * Exit a parse tree produced by the { @code <Iname>\}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
<else>
 * Exit a parse tree produced by { @link <file.parserName>#<Iname>\}.
<endif>
 * @param ctx the parse tree
 */
void exit<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**

```

```

* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
    <file.listenerNames: {lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \};
    separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void visitTerminal(TerminalNode node) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void visitErrorNode(ErrorNode node) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
    <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)> }.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<lname> }.
<endif>
 * @param ctx the parse tree
 * @return the visitor result
 */
    T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
    }
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor },
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {

```

```

<file.visitorNames:{lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \} }; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
<if(parser.tokens)>
public static final int
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(parser.rules)>
public static final int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
private static String[] makeRuleNames() {
return new String[] {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

```

```

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
    }
    <sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
    return new String[] {
        <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
    return new String[] {
        <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
    };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
    _SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */

```

```

@Deprecated
public static final String[] tokenNames;
static {
    tokenNames = new String[_SYMBOLIC_NAMES.length];
    for (int i = 0; i < tokenNames.length; i++) {
        tokenNames[i] = VOCABULARY.getLiteralName(i);
        if (tokenNames[i] == null) {
            tokenNames[i] = VOCABULARY.getSymbolicName(i);
        }

        if (tokenNames[i] == null) {
            tokenNames[i] = "<INVALID>";
        }
    }
}

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f}
    case <f.ruleIndex>:
        <f.name>_action((<f.ctxType>)_localctx, actionIndex);
        break;}; separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f}
    case <f.ruleIndex>:

```



```

return <f.name>_sempred((<r.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
break;}; separator="\n">
    }
}
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
    <actions:{index|
case <index>:
    return <actions.(index)>;}; separator="\n">
    }
    return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=",">) throws RecognitionException {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>);
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  <endif>
  finally {
  <finallyAction>
  exitRule();
  }
  return _localctx;
  }
  >>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}>; separator="\n">

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=",">) throws RecognitionException {
  return <currentRule.name>(0<currentRule.args:{a | , <a>}>);
  }

```

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
  ParserRuleContext _parentctx = _ctx;
  int _parentState = getState();

```

```

<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
_localctx.exception = re;
_errHandler.reportError(this, re);
_errHandler.recover(this, re);
}
finally {
<finallyAction>
unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">

```

```

switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {

```

```

<alts; separator="\n">
setState(<choice.stateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
<iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{ alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

```

```

isZero ::= [
"0":true,
default:false
]

```

```

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

```

```

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>===<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{ t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr> ) ) {
  <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
  if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
  _errHandler.reportMatch(this);
  consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar) ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText():0)"

```



```

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
"public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List<<r.ctxName>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
return getRuleContext(<r.ctxName>.class,i);
}

```

>>

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
```

```
* r becomes rContext.
```

```
*/
```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
```

```
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"
```

```
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
```

```
::= <<
```

```
public static class <struct.name> extends
```

```
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
```

```
<interfaces; separator=", "><endif> {
```

```
<attrs:{ a | public <a>; }; separator="\n">
```

```
<getters:{ g | <g>; }; separator="\n">
```

```
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
```

```
}<endif>
```

```
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>}) {
```

```
super(parent, invokingState);
```

```
<struct.ctorAttrs:{ a | this.<a.name> = <a.name>; }; separator="\n">
```

```
}
```

```
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
```

```
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
```

```
public <struct.name>() { }
```

```
public void copyFrom(<struct.name> ctx) {
```

```
super.copyFrom(ctx);
```

```
<struct.attrs:{ a | this.<a.name> = ctx.<a.name>; }; separator="\n">
```

```
}
```

```
<endif>
```

```
<dispatchMethods; separator="\n">
```

```
<extensionMembers; separator="\n">
```

```
}
```

```
>>
```

```
AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
```

```
public static class <struct.name> extends <currentRule.name; format="cap">Context {
```

```
<attrs:{ a | public <a>; }; separator="\n">
```

```
<getters:{ g | <g>; }; separator="\n">
```

```
public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
```

```

<dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
    if ( listener instanceof <parser.grammarName>Listener )
        ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
        format="cap">(this);
    }
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
    T>)visitor).visit<struct.derivedFromName; format="cap">(this);
    else return visitor.visitChildren(this);
    }
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>";
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    <if(label)>_localctx.<label> = _prevctx;<endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
}
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
  _parentState));
  <if(label)>
  <if(isListLabel)>
  ((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
  <else>
  ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
  <endif>
  <endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
  >>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  _ctx = _localctx;
  _prevctx = _localctx;
  >>

```

```

recRuleSetPrevCtx() ::= <<
  if ( _parseListeners!=null ) triggerExitRuleEvent();
  _prevctx = _localctx;
  >>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  package <lexerFile.genPackage>;
  <endif>
  <namedActions.header>
  import org.antlr.v4.runtime.Lexer;
  import org.antlr.v4.runtime.CharStream;
  import org.antlr.v4.runtime.Token;
  import org.antlr.v4.runtime.TokenStream;
  import org.antlr.v4.runtime.*;
  import org.antlr.v4.runtime.atn.*;
  import org.antlr.v4.runtime.dfa.DFA;
  import org.antlr.v4.runtime.misc.*;

  <lexer>
  >>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
  @SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
  public class <lexer.name> extends <superClass; null="Lexer"> {
    static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

```

```

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
    new PredictionContextCache();
<if(lexer.tokens)>
public static final int
    <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public static final int
    <lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public static final int
    <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[] channelNames = {
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static String[] modeNames = {
    <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

private static String[] makeRuleNames() {
    return new String[] {
        <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
    super(input);
    _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

```

```

@Override
public String[] getChannelNames() { return channelNames; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={ "+<\n><\t>" }>";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={ "+<\n><\t>" }>";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org antlr.v4.tool.DOTGenerator dot = new org antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/

```

```
initValue(typeName) ::= <<  
<javaTypeInitMap.(typeName)>  
>>
```

```
codeFileExtension() ::= ".java"
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-  
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2006 Kay Roepke
```

```
All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
*/
```

```
/*
```

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

```
*/
```

```
location(file, line, column) ::= "<file>:<line>:<column>:"
```

```
message(id, text) ::= "<text> [error <id>]"
```

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

No license file was found, but licenses were detected in source scan.

/*

[The "BSD licence"]

Copyright (c) 2005-2009 Terence Parr

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRLexer.java

No license file was found, but licenses were detected in source scan.

~ Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/META-INF/maven/org.antlr/antlr4/pom.xml

No license file was found, but licenses were detected in source scan.


```

/*
 * [The "BSD license"]
 * Copyright (c) 2013 Terence Parr
 * Copyright (c) 2013 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

```

```

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>">/.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
<file.listenerNames>: {Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n">
}

```

```

<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITreeNode = Antlr4.Runtime.Tree.ITreeNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>

```

```

/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}); separator="\n"

/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

```

```

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>">.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
<file.visitorNames>: { Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">.

```

```

<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);); separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}">/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {
    <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>">/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>">/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)">/>
/// on \<paramref name="context">.
/// \</para>
/// \</summary>

```

```

/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
// \<auto-generated>
//   This code was generated by a tool.
//   ANTLR Version: <ANTLRVersion>
//
//   Changes to this file may cause incorrect behavior and will be lost if
//   the code is regenerated.
// \</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<if(parser.tokens)>
public const int
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

```

```

<if(parser.rules)>
public const int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
<endif>
public static readonly string[] ruleNames = {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<vocabulary(parser.literalNames, parser.symbolicNames)>

public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(parser.name)>() {
decisionToDFA = new DFA[_ATN.NumberOfDecisions];
for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
}
}

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
<literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
<symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
}
}

```

```

};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
    get
    {
        return DefaultVocabulary;
    }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f|
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)><f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)><f.ctxType><endif>_localctx, predIndex);};
separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
    Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an

```



```

* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
    }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
        <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
    }
    return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(<args; separator=", ">) {
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
    EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
}

```

```

<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
}
<endif>
finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
  <csIdentifier.(a.name)>>>);
  EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>
    ExitRule();
  }
  return _localctx;
}
>>

```

```

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>
    ExitRule();
  }
  return _localctx;
  }
  >>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  return <csIdentifier.(currentRule.name)><(0<currentRule.args:{a | , <csIdentifier.(a.name)>>>);
  }

private <currentRule.ctxType> <csIdentifier.(currentRule.name)><(int _p<args:{a | , <a>>}> {

```

```

ParserRuleContext _parentctx = Context;
int _parentState = State;
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{ a | ,
<csIdentifier.(a.name)>>>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
_localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<finallyAction>
UnrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);

```

```

<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);

```

```

<preamble; separator="\n">
do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}

```

>>

```
PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;}; separator="\n">
    default:
    <error>
  }
  State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>
```

```
Sync(s) ::= "Sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \< <offsetShift(tokenType.(ttype), bits.shift)>)}); separator=" | ">) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]
```

```
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
```

```

%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <tokenType.(t)>}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{ l | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><(<expr>) ) {
  <if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{ l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

```



```

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)    ::= "_type = <tokenType.(arg)>);"
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>);"
LexerModeCommand(arg, grammar)    ::= "_mode = <modeName.(arg)>);"
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>);"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"

```

```

TokenPropertyRef_index(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>() {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }
ContextTokenListGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);

```

```

}
>>
ContextRuleGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() {
return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<csIdentifier.(r.name)>() {
return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>(int i) {
return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
: base(parent, invokingState)
{
<struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
}

```

```

public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
    base.CopyFrom(context);
    <struct.attrs:{ a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>; }; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
    <attrs:{ a | public <a>; }; separator="\n">
    <getters:{ g | <g>; }; separator="\n">
    public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
    <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
    I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */

```

```

ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
TriggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

```

```

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<if(lexer.tokens)>
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public const int
<rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
"DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | <c>}; separator=", ",
wrap, anchor><endif>
};

public static string[] modeNames = {
<lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

```

```

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
    Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
private static char[] _serializedATN = {
    <model.serialized; separator=", ", wrap>,
};

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);

>>

initValue(typeName) ::= <<

```

```
default(<typeName>)
```

```
>>
```

```
codeFileExtension() ::= ".cs"
```

```
modeName ::= [  
  "DEFAULT_MODE" : "DefaultMode",  
  default : key  
]
```

```
channelName ::= [  
  "HIDDEN" : "Hidden",  
  "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",  
  default : key  
]
```

```
tokenType ::= [  
  "EOF" : "Eof",  
  default : key  
]
```

```
csIdentifier ::= [  
  "abstract" : "@abstract",  
  "as" : "@as",  
  "base" : "@base",  
  "bool" : "@bool",  
  "break" : "@break",  
  "byte" : "@byte",  
  "case" : "@case",  
  "catch" : "@catch",  
  "char" : "@char",  
  "checked" : "@checked",  
  "class" : "@class",  
  "const" : "@const",  
  "continue" : "@continue",  
  "decimal" : "@decimal",  
  "default" : "@default",  
  "delegate" : "@delegate",  
  "do" : "@do",  
  "double" : "@double",  
  "else" : "@else",  
  "enum" : "@enum",  
  "event" : "@event",  
  "explicit" : "@explicit",  
  "extern" : "@extern",  
  "false" : "@false",  
  "finally" : "@finally",  
  "fixed" : "@fixed",
```


"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",

```
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* [The "BSD license"]
```

```
* Copyright (c) 2012-2016 Terence Parr
```

```
* Copyright (c) 2012-2016 Sam Harwell
```

```
* All rights reserved.
```

```
*
```

```
* Redistribution and use in source and binary forms, with or without
```

```
* modification, are permitted provided that the following conditions
```

```
* are met:
```

```
*
```

```
* 1. Redistributions of source code must retain the above copyright
```

```
* notice, this list of conditions and the following disclaimer.
```

```
* 2. Redistributions in binary form must reproduce the above copyright
```

```
* notice, this list of conditions and the following disclaimer in the
```

```
* documentation and/or other materials provided with the distribution.
```

```
* 3. The name of the author may not be used to endorse or promote products
```

```
* derived from this software without specific prior written permission.
```

```
*
```

```
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
```

```
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
```

```
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
```

```
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
```

```
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
```

```
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
```

```
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
*/
```

```
// File : A3Lexer.g
```

```
// Author : Jim Idle (jimi@temporal-wave.com)
```

```
// Copyright : Free BSD - See @header clause below
```

```
// Version : First implemented as part of ANTLR 3.2 this is the self
```

```
// hosting ANTLR 3 Lexer.
```

```
//
```

```

// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs

```

```

// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*
[The "BSD licence"]
Copyright (c) 2005-2009 Terence Parr
All rights reserved.

```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
*/
```

```
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.runtime.misc.Interval;  
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info  
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
        int n = tokens.size();
```

```
        if ( i>=n ) i = n-1; // seems index == n as we lex
```

```
    while ( i>=0 && i<n ) {
```

```
        int ttype = tokens.get(i).getType();
```

```
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
```

```
            return tokens.get(i);
```

```
        }
```

```
        i--;
```

```
    }
```

```
    return null;
```

```
 }
```

```
 }
```

```

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

(
// Single line comment, possibly with embedded src/line directives
// in a similar style to the C pre-processor, allowing generated
// code to refer the programmer back to the original source code
// in case of error.
//
'/'
(
(' $ANTLR')=> ' $ANTLR' SRC
| ~(NLCHARS)*
)

| // Multi-line comment, which may be a documentation comment
// if it starts /** (note that we protect against accidentally
// recognizing a comment /**/ as a documentation comment
//
'/**' (
{ input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
| { true }?=> // Required to cover all alts with predicates
)
)

```

```

// Should we support embedded multiline comments here?
//
(
  // Pick out end of multiline comment and exit the loop
  // if we find it.
  //
  { !(input.LA(1) == '*' && input.LA(2) == '/') }?

  // Anything else other than the non-greedy match of
  // the comment close sequence
  //
  .
)*
(
  // Look for the comment terminator, but if it is accidentally
  // unterminated, then we will hit EOF, which will trigger the
  // epsilon alt and hence we can issue an error message relative
  // to the start of the unterminated multi-line comment
  //
  /*'

|// Unterminated comment!
//
{
  // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
}
)

|// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
  // TODO: Insert error message relative to comment start
  //
}
)
{
  // We do not wish to pass the comments in to the parser. If you are
  // writing a formatter then you will want to preserve the comments off
  // channel, but could just skip and save token space if not.
  //
  $channel=COMMENTS_CHANNEL;
}
;

```

ARG_OR_CHARSET

```

options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
  {
  $type=ARG_ACTION;
  // Set the token text to our gathered string minus outer [ ]
  String t = $text;
  t = t.substring(1,t.length()-1);
  setText(t);
  }
;

```

```

fragment
LEXER_CHAR_SET

```

```

: '['
  ('\w ~(\r|\n)
  | ~(\r|\n|\\|'])
  )*
  ']'
;

```

```
// -----
```

```
// Argument specs
```

```
//
```

```
// Certain argument lists, such as those specifying call parameters
```

```
// to a rule invocation, or input parameters to a rule specification
```

```
// are contained within square brackets. In the lexer we consume them
```

```
// all at once and sort them out later in the grammar analysis.
```

```
//
```

```
fragment
```

```
ARG_ACTION
```

```

: '['
  (
    ARG_ACTION

    | ('')=>ACTION_STRING_LITERAL

    | ('\')=>ACTION_CHAR_LITERAL

    | ~('[|'])
  )*
  ']'
;

```

```
// -----
```

```
// Actions
```

```
//
```



```

// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' {$type = SEMPRED;}
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {

```

```

//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

|// What appears to be a literal
//
ACTION_CHAR_LITERAL

|// We have assumed that the target language has C/Java
// type comments.
//
COMMENT

|// What appears to be a literal
//
ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
ACTION_ESC

|// Some other single character that is not
// handled above
//
~(\\|\"|\'|/|{|})

)*

(
// Correctly balanced closing brace
//
}'

```

```

| // Looks like have an imbalanced {} block, report
  // with respect to the opening brace.
  //
  {
    // TODO: Report imbalanced {}
    System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
  }
)
;

```

```

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS   : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

```

```

IMPORT     : 'import'           ;
FRAGMENT   : 'fragment'        ;
LEXER      : 'lexer'           ;
PARSER     : 'parser'          ;
GRAMMAR    : 'grammar'         ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'       ;
PUBLIC     : 'public'          ;
PRIVATE    : 'private'         ;
RETURNS    : 'returns'         ;
LOCALS     : 'locals'          ;
THROWS     : 'throws'          ;
CATCH      : 'catch'           ;
FINALLY    : 'finally'         ;
MODE       : 'mode'            ;

```

```

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON      : ':'
          {

```

```

// scan backwards, looking for a RULE_REF or TOKEN_REF.
// which would indicate the start of a rule definition.
// If we see a LPAREN, then it's the start of the subrule.
// this.tokens is the token string we are pushing into, so
// just loop backwards looking for a rule definition. Then
// we set isLexerRule.
Token t = getRuleOrSubruleStartToken();
if ( t!=null ) {
    if ( t.getType()==RULE_REF ) isLexerRule = false;
    else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
    // else must be subrule; don't alter context
}
}
;

COLONCOLON  : '::'      ;
COMMA      : ','      ;
SEMI       : ';'      ;
LPAREN     : '('      ;
RPAREN     : ')'      ;
RARROW     : '->'    ;
LT         : '<'      ;
GT         : '>'      ;
ASSIGN     : '='      ;
QUESTION   : '?'      ;
SYNPRED    : '=>'    ;
{
    Token t = new CommonToken(input, state.type, state.channel,
        state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;

STAR       : '*'      ;
PLUS       : '+'      ;
PLUS_ASSIGN : '+='    ;
OR         : '|'      ;
DOLLAR     : '$'      ;
DOT        : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE     : '..'      ;
AT         : '@'      ;
POUND     : '#'      ;
NOT       : '~'      ;
RBRACE    : '}'      ;

/** Allow unicode rule/token names */

```

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

fragment

```

NameChar : NameStartChar
  | '0'..'9'
  | '_'
  | '\u00B7'
  | '\u0300'..\u036F'
  | '\u203F'..\u2040'
;

```

fragment

```

NameStartChar
  : 'A'..'Z' | 'a'..'z'
  | '\u00C0'..\u00D6'
  | '\u00D8'..\u00F6'
  | '\u00F8'..\u02FF'
  | '\u0370'..\u037D'
  | '\u037F'..\u1FFF'
  | '\u200C'..\u200D'
  | '\u2070'..\u218F'
  | '\u2C00'..\u2FEF'
  | '\u3001'..\uD7FF'
  | '\uF900'..\uFDCF'
  | '\uFDF0'..\uFEFE'
  | '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.

//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that

```

// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: "\\" .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
}
//

```

```

    }
    ;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~("\\"|\\"|\r|\n) ) ) *
  ( "\""
  | // Unterminated string literal
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: "\"
  (
    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|\"|\"|'

    | // A Java style Unicode escape sequence
    UNICODE_ESC

    | // A Swift/Hack style Unicode escape sequence
    UNICODE_EXTENDED_ESC

    | // An illegal escape sequence
    ~('b'|'t'|'n'|'f'|'r'|\"|\"|'|\u') // \x for any invalid x (make sure to match char here)
    {

```

```

    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
    }
)
;

```

fragment

UNICODE_ESC

@init {

```

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
(
    HEX_DIGIT { hCount++; }
    (
        HEX_DIGIT { hCount++; }
        (
            HEX_DIGIT { hCount++; }
            (
                // Four valid hex digits, we are good
                //
                HEX_DIGIT { hCount++; }

                | // Three valid digits
            )
        )

        | // Two valid digits
    )

    | // One valid digit
)
)

```



```

    )
    | // No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
    if (hCount < 4) {
        Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
        String lastChar = input.substring(badRange.b, badRange.b);
        if ( lastChar.codePointAt(0)=='\" ) {
            badRange.b--;
        }
        String bad = input.substring(badRange.a, badRange.b);
        Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
    }
}
;

fragment
UNICODE_EXTENDED_ESC
: 'u{' // Leadin for unicode extended escape sequence

    HEX_DIGIT+ // One or more hexadecimal digits

    '}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to
{
    int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
    if (numDigits > 6) {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
    }
}
;

// -----
// Whitespace
//

```

```

// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
  ' '
  | '\t'
  | '\r'
  | '\n'
  | '\f'
)+
  {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

```

```

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

```

Found in path(s):

* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

```

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 */

```

```

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
```

```
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

```

```
/** force filtering (and return tokens). triggers all above actions. */
```

```
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

```

```
private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}

```

```
// ignore comments right away
```

COMMENT

```
: /*' ( options {greedy=false;} : . )* */' {delegate.text($text);}
;
```

LINE_COMMENT

```
: /*' ~(\n|\r)* \r? \n' {delegate.text($text);}
;
```

SET_NONLOCAL_ATTR

```
:'$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR '
{
  delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;
```

NONLOCAL_ATTR

```
:'$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;
```

QUALIFIED_ATTR

```
:'$ x=ID '!' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;
```

SET_ATTR

```
:'$ x=ID WS? '=' expr=ATTR_VALUE_EXPR '
{
  delegate.setAttr($text, $x, $expr);
}
;
```

ATTR

```
:'$ x=ID {delegate.attr($text, $x);}
;
```

// Anything else is just random text

TEXT

```
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c~(\\| '$) {buf.append((char)$c);}
  | \\$' {buf.append('$);}
  | \\' c~('$) {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;
```

fragment

```
ID : ('a..'z'|'A..'Z'|'_') ('a..'z'|'A..'Z'|'0'..'9'|'_')*
;
```

```
/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
```

```
fragment
```

```
ATTR_VALUE_EXPR
```

```
: ~'=' (~';)*
```

```
;
```

```
fragment
```

```
WS : ( '\t'|\n'|\r')+;
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/ActionSplitter.g
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2011 Terence Parr
```

```
All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1300428068_1649144266.79/0/antlr4-4-9-2-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
```

1.6 kotlin-stdlib-common 1.6.10

1.6.1 Available under license :

Apache-2.0

1.7 bean-validation-api 2.0.2

1.7.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2013 Cognifide Limited

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.8 feign-httpclient 8.18.0

1.8.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2015 Netflix, Inc.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1274702072_1645234420.76/0/feign-httpclient-8-18-0-sources-  
jar/feign/httpclient/HttpClient.java
```

1.9 jdbi-sqlobject 3.27.2

1.9.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ <http://www.apache.org/licenses/LICENSE-2.0>
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/META-INF/maven/org.jdbi/jdbi3-sqlobject/pom.xml

No license file was found, but licenses were detected in source scan.

<!--

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/locator/package.html

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/statement/package.html

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/package.html

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/transaction/package.html
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/customizer/package.html
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/package.html

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/statement/SqlCall.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/statement/internal/SqlUpdateHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/customizer/internal/BindListFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/RegisterConstructorMappers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/RegisterRowMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/RegisterColumnMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/statement/MapTo.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/internal/RegisterColumnMappersImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/locator/internal/UseAnnotationSqlLocatorImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/UseSqlParser.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/config/internal/RegisterObjectArgumentFactoryImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-jar/org/jdbi/v3/sqlobject/customizer/Stamped.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/config/internal/RegisterBeanMappersImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/AllowUnusedBindings.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/transaction/Transactional.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/locator/UseClasspathSqlLocator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/SqlScript.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/ValueColumnImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/SqlBatch.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/WithHandleMethodHandlerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/internal/SqlAnnotations.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/locator/UseAnnotationSqlLocator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterArgumentFactoriesImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/UseEnumStrategy.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/FetchSizeFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/OutParameter.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/BridgeMethodHandlerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/transaction/Transaction.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/SqlUpdate.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterFieldMappers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/SqlStatementCustomizerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterBeanMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterBeanMappers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/UseTemplateEngineImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterRowMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/statement/UseRowMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterFieldMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/Bind.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/CustomizingStatementHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/OutParameterList.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterCollectorFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlObject.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/SqlCallHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindMethodsFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/ParameterCustomizerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/GetGeneratedKeys.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlObjectPlugin.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlMethodAnnotatedHandlerDecorator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/QueryTimeOutFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterRowMapperFactories.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/MapToFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindFieldsFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/locator/AnnotationSqlLocator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/UseSqlParserImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterColumnMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/UnableToCreateSqlObjectException.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterObjectArgumentFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterFieldMappersImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/FetchSize.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/config/RegisterColumnMapperFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/QueryTimeOut.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterConstructorMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/Handler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/DefineListFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterFieldMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/HandlerDecorator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/SqlStatementCustomizer.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterJoinRowMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindBean.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindMethodsList.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/ConfiguringAnnotation.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindPojoFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/Configurer.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterColumnMapperFactories.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterRowMappers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/SqlScriptsHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterColumnMapperFactoriesImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/AllowUnusedBindingsFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/DefaultMethodHandlerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/internal/ParameterUtil.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterCollectorFactoryImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/DefineFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterColumnMapperFactoryImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/locator/internal/UseClasspathSqlLocatorImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterRowMapperFactoriesImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindBeanList.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/KeyColumn.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/TimestampedConfig.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/TimestampedFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/Define.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/SqlQuery.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/SqlScripts.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterArgumentFactories.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlOperation.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/MaxRows.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/UseRowReducer.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/ValueColumn.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlObjects.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterConstructorMappersImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterBeanMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/SqlBatchHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/HandlerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/UseTemplateEngine.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/KeyColumnImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindFields.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/DefineList.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/GenerateSqlObject.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/customizer/BindMap.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SingleValue.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterRowMapperFactoryImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/BatchChunkSize.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/DefineNamedBindingsFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlMethodHandlerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/transaction/internal/TransactionDecorator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/locator/SqlObjectClasspathSqlLocator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindBeanListFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterRowMapperFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/OutParameterListFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindMapFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/CreateSqlObject.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlMethodDecoratingAnnotation.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterObjectArgumentFactoriesImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/SqlObjectStatementConfiguration.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterJoinRowMapper.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterConstructorMapperImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterArgumentFactoryImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/DefineNamedBindings.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/SqlQueryHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/OutParameterFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindBeanFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterColumnMappers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-

jar/org/jdbi/v3/sqlobject/customizer/BindMethods.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/Handlers.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/DecoratorOrder.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/SqlStatementCustomizingAnnotation.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/PojoWarmingCustomizer.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/HandlerDecorators.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterArgumentFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/SqlStatementParameterCustomizer.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/locator/SqlLocator.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/DefaultMethodHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/BindParameterCustomizerFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/RegisterObjectArgumentFactories.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/RegisterRowMappersImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/internal/CreateSqlObjectHandler.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/statement/internal/ResultReturner.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/transaction/TransactionalCallback.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/config/internal/UseEnumStrategyImpl.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindList.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/BindPojo.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/internal/SqlObjectInitData.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/MaxRowsFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/SqlObjectFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/customizer/internal/BindMethodsListFactory.java
* /opt/cola/permits/1341639716_1654808696.7607806/0/jdbi3-sqlobject-3-27-2-sources-
jar/org/jdbi/v3/sqlobject/transaction/TransactionalConsumer.java

1.10 micronaut-serialization 1.0.1

1.10.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2022 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/util/CustomizableSerializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/util/CustomizableDeserializer.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2021 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
```

jar/io/micronaut/serde/util/NullableSerde.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/ObjectMapper.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/annotation/SerdeImport.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/LowerDotCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/Serde.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/DeserializerLocator.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/SnakeCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/NamingStrategyLocator.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/Deserializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/KebabCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/PropertyNameingStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/SerializerLocator.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/exceptions/SerdeException.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/Encoder.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/UpperCamelCaseStrategyWithSpaces.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/annotation/SerdeConfig.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/exceptions/InvalidPropertyFormatException.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/reference/AbstractPropertyReferenceManager.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/SerdeIntrospections.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/DeserializationConfiguration.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/SerdeRegistry.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/Decoder.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/SerdeConfiguration.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/util/NullableDeserializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-

```

jar/io/micronaut/serde/config/naming/LowerCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/exceptions/InvalidFormatException.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/LowerCamelCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/UpdatingDeserializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/UpperCamelCaseStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/reference/PropertyReference.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/naming/IdentityStrategy.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/Serializer.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/reference/SerializationReference.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/config/SerializationConfiguration.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/annotation/Serdeable.java
* /opt/cola/permits/1331474218_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-
jar/io/micronaut/serde/reference/PropertyReferenceManager.java

```

1.11 kafka-schema-serializer 5.5.5

1.11.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>5.5.5</version>
  </parent>

  <licenses>
    <license>
      <name>Apache License 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

```

```

</licenses>

<artifactId>kafka-schema-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-serializer</name>

<dependencies>
  <dependency>
    <groupId>org.apache.kafka</groupId>
    <artifactId>kafka_${kafka.scala.version}</artifactId>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-client</artifactId>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>common-config</artifactId>
  </dependency>

  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>

```

Found in path(s):

```

* /opt/cola/permits/1341639782_1654785878.0524044/0/kafka-schema-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml

```

1.12 jackson-module-parameter-names 2.13.3

1.12.1 Available under license :

Apache-2.0

1.13 java-servlet-api 4.0.1

1.13.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You

distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of

the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING

NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys. fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and

every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions.

You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE

STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

1.14 metrics---dropwizard v4.0.5

1.14.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1545937975057
Build-Jdk: 1.8.0_191
Built-By: artem
Bundle-Description: An Apache HttpClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Apache HttpClient
Bundle-SymbolicName: io.dropwizard.metrics.httpclient
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.httpclient;uses:="com.codahale.metrics,org.apache.http,org.apache.http.config,org.apache.http.conn,org.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";version="4.0.5"
Implementation-Title: Metrics Integration for Apache HttpClient
Implementation-URL: <http://metrics.dropwizard.io/metrics-httpclient>
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.0.5
Import-Package: com.codahale.metrics;version="[4.0,5)",org.apache.http,org.apache.http.client,org.apache.http.client.methods,org.apache.http.client.utils,org.apache.http.config,org.apache.http.conn,org.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.ssl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.http.pool,org.apache.http.protocol
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906

Found in path(s):

* /opt/cola/permits/1274705442_1648835835.08/0/metrics-httpclient-4-0-5-jar/META-INF/MANIFEST.MF

1.15 slf4j-api-module 1.7.26

1.15.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR

COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.16 annotations-for-metrics 4.1.29

1.16.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 1.8
Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.1.29
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.annotation;version="4.1.29"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.1.29
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1473592011_1668796806.4841948/0/metrics-annotation-4-1-29-jar/META-INF/MANIFEST.MF

1.17 google-guice 4.2.2

1.17.1 Available under license :

Google Guice - Extensions - MultiBindings
Copyright 2006-2018 Google, Inc.

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.18 hibernate-validator 6.1.7.Final

1.18.1 Available under license :

Hibernate Validator, declare and validate application constraints

License: Apache License, Version 2.0

See the license.txt file in the root directory or <<http://www.apache.org/licenses/LICENSE-2.0>>.

Adam Stawicki

Ahmed Al Hafoudh

Alaa Nassef

Andrey Derevyanko

Andrey Rodionov

Asutosh Pandya

Benson Margulies

Brent Douglas

Carlos Vara

Carlo de Wolf

Chris Beckey

Christian Ivan

Dag Hovland

Damir Alibegovic

Dario Seidl

Davide D'Alto

Davide Marchignoli

Denis Tiago

Doug Lea

Emmanuel Bernard

Efthymis Sarbanis

Federico

Federico Mancini

Gavin King

George Gastaldi

Gerhard Petracek

Guillaume Husta

Guillaume Smet

Gunnar Morling

Hardy Ferentschik

Henno Vermeulen

Hillmer Chona

Jan-Willem Willebrands

Jason T. Greene

Jesper Preuss

Jiri Bilek

Julien Furgerot
Julien May
Juraci Krohling
Justin Nauman
Kathryn Killebrew
Kazuki Shimizu
Kevin Pollet
Khalid Alqinyah
Lee KyoungIl
Leonardo Loch Zanivan
Lucas Pouzac
Lukas Niemeier
Mark Hobson
Marko Bekhta
Matthias Kurz
Mert Caliskan
Michal Fotyga
Nicola Ferraro
Nicolas Franois
Paolo Perrotta
Pete Muir
Rob Dickinson
Sanne Grinovero
Sebastian Bayerl
Shahram Goodarzi
Shane Bryzak
Shelly McGowan
Sjaak Derksen
Steve Ebersole
Strong Liu
Tadhg Pearson
Takashi Aoe
Tomaz Cerar
Tommy Johansen
Victor Rezende dos Santos
Willi Schnborn
Xavier Sosnovsky
Yanming Zhou
Yoann Rodire

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

1.19 cloudevents---kafka-transport-binding

2.2.0

1.19.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2018-Present The CloudEvents Authors
~ <p>
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~ <p>
~ http://www.apache.org/licenses/LICENSE-2.0
~ <p>
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
~
-->
```

Found in path(s):

```
* /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2018-Present The CloudEvents Authors
* <p>
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
* <p>
* http://www.apache.org/licenses/LICENSE-2.0
* <p>
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
```

Found in path(s):

- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventMessageDeserializer.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventMessageSerializer.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventSerializer.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventDeserializer.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaBinaryMessageReaderImpl.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaProducerMessageWriterImpl.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/KafkaMessageFactory.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaHeaders.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaSerializerMessageWriterImpl.java
- * /opt/cola/permits/1340816289_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/BaseKafkaMessageWriterImpl.java

1.20 apache-commons-text 1.10.0

1.20.1 Available under license :

Apache Commons Text

Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<https://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.21 javax.inject:javax.inject 1

1.21.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2009 The JSR-330 Expert Group
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Provider.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Named.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Qualifier.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Inject.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/package-info.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Scope.java
* /opt/cola/permits/1299411403_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Singleton.java
```

1.22 docker-java 3.2.12

1.22.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017 cdancy.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

*/

Found in path(s):

* /opt/cola/permits/1331473523_1653068661.0567706/0/docker-java-api-3-2-12-sources-jar/com/github/dockerjava/api/model/HealthCheck.java

1.23 google-gson 2.9.0

1.23.1 Available under license :

Google Gson

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2008-2011 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.24 micronaut-flyway 5.2.0

1.24.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/FlywayMigrator.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/GormMigrationRunner.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/endpoint/FlywayEndpoint.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/DataSourceMigrationRunner.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/event/SchemaCleanedEvent.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/FeatureDetectorSubstitutions.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/endpoint/FlywayReport.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/AbstractFlywayMigration.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/event/MigrationFinishedEvent.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/FlywayFeature.java

* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/ScannerSubstitutions.java

```
* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/package-info.java
* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/FlywayConfigurationProperties.java
* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/graalvm/MicronautPathLocationScanner.java
* /opt/cola/permits/1331473697_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-
jar/io/micronaut/flyway/AlternativeMigrationRunner.java
```

1.25 cloudevents---core 2.2.0

1.25.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2018-Present The CloudEvents Authors
~ <p>
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~ <p>
~ http://www.apache.org/licenses/LICENSE-2.0
~ <p>
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
~
-->
```

Found in path(s):

```
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/META-
INF/maven/io.cloudevents/cloudevents-core/pom.xml
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2018-Present The CloudEvents Authors
* <p>
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
* <p>
* http://www.apache.org/licenses/LICENSE-2.0
* <p>
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
```


- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- *
- */

Found in path(s):

- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v03/CloudEventBuilder.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v1/V03ToV1AttributesConverter.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/impl/CloudEventContextReaderAdapter.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v1/CloudEventBuilder.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/CloudEventUtils.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/builder/CloudEventBuilder.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/extensions/impl/ExtensionUtils.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/message/StructuredMessageReader.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v03/V1ToV03AttributesConverter.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/message/impl/GenericStructuredMessageReader.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/provider/EventFormatProvider.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/provider/ExtensionProvider.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/message/impl/BaseGenericBinaryMessageReaderImpl.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/message/Encoding.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v1/CloudEventV1.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/message/MessageReader.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/format/EventFormat.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/v03/CloudEventV03.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/impl/BaseCloudEventBuilder.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-jar/io/cloudevents/core/extensions/DaterefExtension.java
- * /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-

```
jar/io/cloudevents/core/message/MessageWriter.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/format/EventDeserializationException.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/message/impl/BaseStructuredMessageReader.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/impl/CloudEventReaderAdapter.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/format/EventSerializationException.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/extensions/DistributedTracingExtension.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/message/impl/MessageUtils.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/message/impl/BaseBinaryMessageReader.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/message/StructuredMessageWriter.java
* /opt/cola/permits/1340815883_1654861257.1698394/0/cloudevents-core-2-2-0-sources-
jar/io/cloudevents/core/impl/BaseCloudEvent.java
```

1.26 netty-tomcatnative-openssl-dynamic

2.0.48.Final

1.26.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2016 The Netty Project
~
~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1473561893_1669090143.9916968/0/netty-tcnative-2-0-48-final-jar/META-
INF/maven/io.netty/netty-tcnative/pom.xml
```

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.
Automatic-Module-Name: io.netty.internal.tcnative
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-SymbolicName: io.netty.tcnative
Implementation-Version: 2.0.48.Final
Built-By: norman
Bnd-LastModified: 1643124869520
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Version: 2.0.48.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative/>

Found in path(s):

* /opt/cola/permits/1473561893_1669090143.9916968/0/netty-tcnative-2-0-48-final-jar/META-INF/MANIFEST.MF

1.27 micronaut 3.4.3

1.27.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012 Google Inc. All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/clhm/package-info.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/clhm/EntryWeigher.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2011 Google Inc. All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/clhm/LinkedDeque.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2022 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/beans/UnsafeBeanProperty.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/convert/ImmutableArgumentConversionContext.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/io/scan/ClassPathResourceLoader.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/io/buffer/ReferenceCounted.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/convert/format/ReadableBytesTypeConverter.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/bind/BoundExecutable.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/KotlinUtils.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/locale/LocaleResolutionConfiguration.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/serialize/package-info.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/convert/format/MapFormat.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/cli/package-info.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/beans/AbstractBeanIntrospectionReference.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/annotation/Indexed.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/io/buffer/ByteBuffer.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/serialize/ObjectSerializer.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/MutableConvertibleValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/OptionalMultiValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Internal.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/service/DefaultServiceDefinition.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/ConvertibleValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/ResourceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/Toggleable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/order/OrderUtil.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/NameResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/scan/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Order.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationValueResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/format/Format.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/exceptions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/MapPropertyResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/buffer/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/NameUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/scan/DefaultClassPathResourceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/annotation/AnnotatedArgumentBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/service/ServiceDefinition.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/Headers.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/version/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/MutableArgumentValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/MutableConvertibleMultiValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/ExecutableBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/service/StreamSoftServiceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotatedTypeInfo.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/Argument.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationMetadataResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/Described.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/OptionalValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/buffer/ByteBufferFactory.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/version/SemanticVersion.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/CommandLine.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/EmptyAnnotationMetadata.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/ConvertibleMultiValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationMetadataDelegate.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/service/SoftServiceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/ClassUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanIntrospection.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/conventions/TypeConvention.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/DefaultArgument.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/DefaultMutableArgumentValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/io/service/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/LocaleResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/EntryPoint.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanIntrospectionReference.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Introspected.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/locale/FixedLocaleResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/PropertyNotFoundException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/ConversionError.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationValueBuilder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Indexes.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/TypeHint.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/functional/ThrowingFunction.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/order/Ordered.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/BeanPropertyBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/Option.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/OptionalMultiValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/format/FormattingTypeConverter.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/scan/AnnotationScanner.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/exceptions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/ReflectiveAccess.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/TypeConverter.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/exceptions/IntrospectionException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Generated.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/DefaultArgumentValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/annotation/Experimental.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/exceptions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/CollectionUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/TypeConverterRegistrar.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/DefaultArgumentConversionContext.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/exception/InstantiationException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/OptionalValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/functional/ThrowingSupplier.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/StringUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/format/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/version/VersionUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationSource.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanIntrospector.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/ConvertibleValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/graal/AutomaticFeatureUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanIntrospectionMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/GenericTypeUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/SupplierUtil.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Creator.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/version/annotation/Version.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/format/ReadableBytes.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/Streamable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/exceptions/UnsatisfiedArgumentException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/io/file/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/UrlReadable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/ArgumentBinderRegistry.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/ResourceResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/ArgumentUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/CommandLineParser.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/TypeVariableResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/conventions/StringConvention.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/exception/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/exception/InvocationException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/serialize/exceptions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/Writable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/UsedByGeneratedCode.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/MutableConvertibleValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/conventions/PropertyConvention.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/attr/AttributeHolder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/conventions/MethodConvention.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/ArgumentBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/annotation/Bindable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/attr/MutableAttributeHolder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/DefaultBeanWrapper.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanWrapper.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/ArrayUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/file/FileSystemResourceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/annotation/AnnotationUtil.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotatedElement.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/DefaultCommandLine.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/annotation/AbstractAnnotatedArgumentBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationMetadataProvider.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/locale/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/PropertyResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/MapValueResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/socket/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/InstantiationUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/annotation/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/AbstractBeanMethod.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/graal/CacheSubstitutions.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/attr/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/InstantiatedMember.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanProperty.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/exceptions/ConversionErrorException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/reflect/ReflectionUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/FileReadable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/locale/AbstractLocaleResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/MutableConvertibleMultiValuesMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/DefaultBeanIntrospector.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/annotation/NonBlocking.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/exceptions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/TypeArgumentBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/ValueResolver.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanMethod.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/conventions/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/AbstractBeanIntrospection.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/Executable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/AbstractBeanProperty.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/IOUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/value/ConvertibleMultiValues.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/DefaultExecutableBinder.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/bind/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/cli/exceptions/ParseException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/order/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/PathMatcher.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/file/DefaultFileSystemResourceLoader.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/ArgumentConversionContext.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/socket/SocketUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationClassValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/Readable.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/ErrorsContext.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/convert/ConversionService.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/Named.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/ReturnType.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/GenericArgument.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/io/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/ConversionContext.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/value/ValueException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/MutableHeaders.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/serialize/JdkSerializer.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/ImmutableSortedStringsArrayMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/Blocking.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationMetadata.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/DefaultConversionService.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/naming/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/ArgumentValue.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/package-info.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/exceptions/ExceptionHandler.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/serialize/exceptions/SerializationException.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/StreamUtils.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/exceptions/BeanExceptionHandler.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2010 Google Inc. All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

```
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/clhm/Weighers.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/clhm/EvictionListener.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/clhm/ConcurrentLinkedHashMap.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/clhm/Weigher.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
```

```
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/AntPathMatcher.java
```

No license file was found, but licenses were detected in source scan.

```
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
# distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/beans/messages.properties

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/META-INF/native-image/io.micronaut/micronaut-core/native-image.properties

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/beans/AbstractBeanConstructor.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/annotation/AccessorsStyle.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/type/DefaultGenericPlaceholder.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/io/scan/BeanIntrospectionScanner.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/annotation/Nullable.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/type/RuntimeTypeInfo.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/type/TypeInfo.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/type/TypeInfoProvider.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/util/RegexPathMatcher.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/type/GenericPlaceholder.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-jar/io/micronaut/core/annotation/NonNull.java

* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-

jar/io/micronaut/core/optim/StaticOptimizations.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/type/ArgumentCoercible.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/util/EnvironmentProperties.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/convert/converters/MultiValuesConverterFactory.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/annotation/AnnotationValueProvider.java
* /opt/cola/permits/1473577596_1668731859.9478781/0/micronaut-core-3-4-3-sources-
jar/io/micronaut/core/beans/BeanConstructor.java

1.28 java-architecture-for-xml-binding 2.3.3

1.28.1 Available under license :

(See license.txt for the actual license terms)

Copyright 2001-@@YEAR@@ Sun Microsystems, Inc. 901 San Antonio Road, Palo Alto, California, 94303, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in this product. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and other countries. This product is distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this product may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any. Third party software, including font technology, is copyrighted and licensed from Sun suppliers. Sun, the Sun logo, and Sun Microsystems are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>). Federal Acquisitions: Commercial Software - Government Users Subject to Standard License Terms and Conditions.

Copyright 2001--@@YEAR@@ Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, Californie 94303 tats-Unis. Tous droits rservs. Distribue par des licences qui en restreignent l'utilisation. Sun Microsystems, Inc. a les droits de propriit intellectuels relatants la technologie incorpore dans ce produit. En particulier, et sans la limitation, ces droits de propriit intellectuels peuvent inclure un ou plus des brevets amricains numrs <http://www.sun.com/patents> et un ou les brevets plus supplmentaires ou les applications de

brevet en attente dans les Etats Unis et les autres pays. Ce produit ou document est protg par un copyright et distribu avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la dcompilation. Aucune partie de ce produit ou document ne peut tre reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation pralable et crite de Sun et de ses bailleurs de licence, s'il y en a. Le logiciel dtenu par des tiers, et qui comprend la technologie relative aux polices de caractres, est protg par un copyright et licenci par des fournisseurs de Sun. Sun, le logo Sun, Sun Microsystems et sont des marques de fabrique ou des marques d'pos'es de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays. Ce produit inclut le logiciel dvelopp par la base de Apache Software Foundation (<http://www.apache.org/>). L'accord du gouvernement des tats Unis est requis avant l'exportation du produit.

/*

* The Apache Software License, Version 1.1

*

*

* Copyright (c) 1999-2004 The Apache Software Foundation. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

*

* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

*

* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

*

* 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

* "This product includes software developed by the

* Apache Software Foundation (<http://www.apache.org/>)."

* Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

*

* 4. The names "Xerces" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

*

* 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

*
* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

* =====

*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation and was
* originally based on software copyright (c) 1999, International
* Business Machines, Inc., <http://www.apache.org>. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.

*/

THIS LICENSE IS INTENDED TO BE USED FOR DEBUGGING THE INSTALLER.

Amendment I

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances.

Amendment II

A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms, shall not be infringed.

Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war, but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of war or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.

Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

Amendment VII

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise reexamined in any court of the United States, than according to the rules of the common law.

Amendment VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

Amendment IX

The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by the people.

Amendment X

The powers not delegated to the United States by the Constitution, nor prohibited by it to the states, are reserved to the states respectively, or to the people.

(See license.txt for the actual license terms)

Copyright 2001-@@YEAR@@ Sun Microsystems, Inc. 901 San Antonio Road, Palo Alto, California, 94303, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in this product. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and other countries. This product is distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this product may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any. Third party software, including font technology, is copyrighted and licensed

from Sun suppliers. Sun, the Sun logo, and Sun Microsystems are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>). Federal Acquisitions: Commercial Software - Government Users Subject to Standard License Terms and Conditions.

Copyright 2001-@@YEAR@@ Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, Californie 94303 tats-Unis. Tous droits rservs. Distribue par des licences qui en restreignent l'utilisation. Sun Microsystems, Inc. a les droits de proprit intellectuels relatants la technologie incorpore dans ce produit. En particulier, et sans la limitation, ces droits de proprit intellectuels peuvent inclure un ou plus des brevets amricains numrs <http://www.sun.com/patents> et un ou les brevets plus supplmentaires ou les applications de brevet en attente dans les Etats Unis et les autres pays. Ce produit ou document est protg par un copyright et distribu avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la dcompilation. Aucune partie de ce produit ou document ne peut tre reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation pralable et crite de Sun et de ses bailleurs de licence, s'il y en a. Le logiciel dtenu par des tiers, et qui comprend la technologie relative aux polices de caractres, est protg par un copyright et licenci par des fournisseurs de Sun. Sun, le logo Sun, Sun Microsystems et sont des marques de fabrique ou des marques d'pos?es de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays. Ce produit inclut le logiciel dvelopp par la base de Apache Software Foundation (<http://www.apache.org/>). L'accord du gouvernement des tats Unis est requis avant l'exportation du produit.

/* =====

- * The Apache Software License, Version 1.1
- *
- * Copyright (c) 2001-2003 The Apache Software Foundation. All rights reserved.
- *
- * Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
- *
- * 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- *
- * 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

*
* 3. The end-user documentation included with the redistribution,
* if any, must include the following acknowledgment:
* "This product includes software developed by the
* Apache Software Foundation (<http://www.apache.org/>)."
* Alternately, this acknowledgment may appear in the software itself,
* if and wherever such third-party acknowledgments normally appear.
*
* 4. The names "Apache" and "Apache Software Foundation" must
* not be used to endorse or promote products derived from this
* software without prior written permission. For written
* permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache",
* nor may "Apache" appear in their name, without prior written
* permission of the Apache Software Foundation.
*
* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* =====
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation. For more
* information on the Apache Software Foundation, please see
* <<http://www.apache.org/>>.
*/
/* =====
* The Apache Software License, Version 1.1
*
* Copyright (c) 2000 The Apache Software Foundation. All rights
* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.

- *
 - * 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
 - *
 - * 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:
 - * "This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>)."
 - * Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
 - *
 - * 4. The names "Apache" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.
 - *
 - * 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.
- * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- * =====
- *
 - * This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.
 - *
 - * Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Apache License
 Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

- A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous

Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first

distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF

LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is

responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

Copyright (c) 2001, Sun Microsystems, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Sun Microsystems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This license came from: <http://www.megginson.com/SAX/copying.html>
However please note future versions of SAX may be covered under <http://saxproject.org/?selected=pd>

This page is now out of date -- see the new SAX site at <http://www.saxproject.org/> for more up-to-date releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com

2000-05-05

This license came from:

<http://www.w3.org/Consortium/Legal/copyright-software-19980720>

W3C SOFTWARE NOTICE AND LICENSE

Copyright 1994-2001 World

Wide Web Consortium, ([World](http://www.w3.org/)

Wide Web Consortium

[Massachusetts Institute of](http://www.lcs.mit.edu/)

Technology, ([Institut National de](http://www.inria.fr/)

Recherche en Informatique et en Automatique,

[Keio University](http://www.keio.ac.jp/)). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code:

"Copyright [date-of-software] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de

Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>"

Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on August 14 1998 so as to improve compatibility with GPL. This version ensures that W3C software licensing terms are no more restrictive than GPL and consequently W3C software may be distributed in GPL packages. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

webmaster
Sun Microsystems, Inc.
Binary Code License Agreement

READ THE TERMS OF THIS AGREEMENT AND ANY PROVIDED SUPPLEMENTAL LICENSE TERMS (COLLECTIVELY "AGREEMENT") CAREFULLY BEFORE OPENING THE SOFTWARE MEDIA PACKAGE. BY OPENING THE SOFTWARE MEDIA PACKAGE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCESSING THE SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL THESE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO YOUR PLACE OF PURCHASE FOR A REFUND OR, IF THE SOFTWARE IS ACCESSED ELECTRONICALLY, SELECT THE "DECLINE" BUTTON AT THE END OF THIS AGREEMENT.

1. LICENSE TO USE. Sun grants you a non-exclusive and non-transferable license for the internal use only of the accompanying software and documentation and any error corrections provided by Sun (collectively "Software"), by the number of users and the class of computer hardware for which the corresponding fee has been paid.

2. RESTRICTIONS. Software is confidential and copyrighted. Title to Software and all associated intellectual property rights is retained by Sun and/or its licensors. Except as specifically authorized in any Supplemental License Terms, you may not make copies of Software, other than a single copy of Software for archival purposes. Unless enforcement is prohibited by applicable law, you may not modify, decompile, or reverse engineer Software. You acknowledge that Software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility. Sun disclaims any express or implied warranty of fitness for such uses. No right, title or interest in or to any trademark, service mark, logo or trade name of Sun or its licensors is granted under this Agreement.

3. LIMITED WARRANTY. Sun warrants to you that for a period of ninety (90) days from the date of purchase, as evidenced by a copy of the receipt, the media on which Software is furnished (if any) will be free of defects in materials and workmanship under normal use. Except for the foregoing, Software is provided "AS IS". Your exclusive remedy and Sun's entire liability under this limited warranty will be at Sun's option to replace Software media or refund the fee paid for Software.

4. DISCLAIMER OF WARRANTY. UNLESS SPECIFIED IN THIS AGREEMENT, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT THESE DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

5. LIMITATION OF LIABILITY. TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

In no event will Sun's liability to you, whether in contract, tort (including negligence), or otherwise, exceed the amount paid by you for Software under this Agreement. The foregoing limitations will apply even if the above stated warranty fails of its essential purpose.

6. Termination. This Agreement is effective until terminated. You may terminate this Agreement at any time by destroying all copies of Software. This Agreement will terminate immediately without notice from Sun if you fail to comply with any provision of this Agreement. Upon Termination, you must destroy all copies of Software.

7. Export Regulations. All Software and technical data delivered under this Agreement are subject to US export control laws and may be subject to export or import regulations in other countries. You agree to comply strictly with all such laws and regulations and acknowledge that you have the responsibility to obtain such licenses to export, re-export, or import as may be required after delivery to you.

8. U.S. Government Restricted Rights. If Software is being acquired by or on behalf of the U.S. Government or by a U.S. Government prime contractor or subcontractor (at any tier), then the Government's rights in Software and accompanying documentation will be only as set forth in this Agreement; this is in accordance with 48 CFR 227.7201 through 227.7202-4 (for Department of Defense (DOD) acquisitions) and with 48 CFR 2.101 and 12.212 (for non-DOD acquisitions).

9. Governing Law. Any action related to this Agreement will be governed by California law and controlling U.S. federal law. No choice of law rules of any jurisdiction will apply.

10. Severability. If any provision of this Agreement is held to be unenforceable, this Agreement will remain in effect with the provision omitted, unless omission would frustrate the intent of the parties, in which case this Agreement will immediately terminate.

11. Integration. This Agreement is the entire agreement between you and Sun relating to its subject matter. It supersedes all prior or contemporaneous oral or written communications, proposals, representations and warranties and prevails over any conflicting or additional terms of any

quote, order, acknowledgment, or other communication between the parties relating to its subject matter during the term of this Agreement. No modification of this Agreement will be binding, unless in writing and signed by an authorized representative of each party.

SUN XML INSTANCE GENERATOR, VERSION 1.0 SUPPLEMENTAL LICENSE TERMS

These supplemental license terms ("Supplemental Terms") add to or modify the terms of the Binary Code License Agreement (collectively, the "Agreement"). Capitalized terms not defined in these Supplemental Terms shall have the same meanings ascribed to them in the Agreement. These Supplemental Terms shall supersede any inconsistent or conflicting terms in the Agreement, or in any license contained within the Software.

1. Software Internal Use and Development License Grant. Subject to the terms and conditions of this Agreement, including, but not limited to Section 4 (Java(TM) Technology Restrictions) of these Supplemental Terms, Sun grants to you, a non-exclusive, non-transferable, royalty-free and limited license to reproduce, modify, and create derivative works of the Software for the sole purpose of adding value and improving the Software for the development of applications ("Programs").
2. License to Distribute Software. Subject to the terms and conditions of this Agreement, including, but not limited to Section 4 (Java (TM) Technology Restrictions) of these Supplemental Terms, Sun grants you a non-exclusive, non-transferable, limited license to reproduce and distribute the Software modified by you as permitted in Section 1 of these Supplemental Terms ("Modified Software") in source or binary code form, provided that (i) you distribute the Modified Software only bundled as part of, and for the sole purpose of running, your Programs, (ii) the Modified Software adds value and improveS the function of the Software, (iv) you do not remove or alter any proprietary legends or notices contained in the Software, (v) you only distribute the Modified Software subject to a license agreement that protects Sun's interests consistent with the terms contained in this Agreement, and (vi) you agree to defend and indemnify Sun and its licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in

connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of any and all Programs and/or Modified Software.

3. Experimental Software. You acknowledge that the Software is experimental and may contain errors, defects, or deficiencies which cannot or will not be corrected by Sun. You shall have the sole responsibility to protect adequately and backup your data and/or equipment used in connection with the Software. You shall not claim against Sun for lost data, re-run time, inaccurate output, work delays or lost profits resulting from your use of the Licensed Software.

4. Java Technology Restrictions. You may not modify the Java Platform Interface ("JPI", identified as classes contained within the "java" package or any subpackages of the "java" package), by creating additional classes within the JPI or otherwise causing the addition to or modification of the classes in the JPI. In the event that you create an additional class and associated API(s) which (i) extends the functionality of the Java platform, and (ii) is exposed to third party software developers for the purpose of developing additional software which invokes such additional API, you must promptly publish broadly an accurate specification for such API for free use by all developers. You may not create, or authorize your licensees to create, additional classes, interfaces, or subpackages that are in any way identified as "java", "javax", "sun" or similar convention as specified by Sun in any naming convention designation.

5. Trademarks and Logos. You acknowledge and agree as between you and Sun that Sun owns the SUN, SOLARIS, JAVA, JINI, FORTE, and iPLANET trademarks and all SUN, SOLARIS, JAVA, JINI, FORTE, and iPLANET-related trademarks, service marks, logos and other brand designations ("Sun Marks"), and you agree to comply with the Sun Trademark and Logo Usage Requirements currently located at <http://www.sun.com/policies/trademarks>. Any use you make of the Sun Marks inures to Sun's benefit.

6. Termination for Infringement. Either party may terminate this Agreement immediately should any Software become, or in either party's opinion be likely to become, the subject of a claim of infringement of any intellectual property right.

For inquiries please contact:

Sun Microsystems, Inc.
901 San Antonio Road, Palo Alto, California 94303
(LFI#100313/Form ID#011801)
Copyright (c) 2003, Kohsuke Kawaguchi
All rights reserved.

Redistribution and use in source and binary forms,
with or without modification, are permitted provided
that the following conditions are met:

- * Redistributions of source code must retain
the above copyright notice, this list of
conditions and the following disclaimer.
- * Redistributions in binary form must reproduce
the above copyright notice, this list of
conditions and the following disclaimer in
the documentation and/or other materials
provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT
HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

- Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may

be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN MIDROSYSTEMS, INC. ("SUN") AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that this software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.

Sun Microsystems, Inc.
Binary Code License Agreement

READ THE TERMS OF THIS AGREEMENT AND ANY PROVIDED SUPPLEMENTAL LICENSE TERMS (COLLECTIVELY "AGREEMENT") CAREFULLY BEFORE OPENING THE SOFTWARE MEDIA PACKAGE. BY OPENING THE SOFTWARE MEDIA PACKAGE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCESSING THE SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL THESE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO YOUR PLACE OF PURCHASE FOR A REFUND OR, IF THE SOFTWARE IS ACCESSED ELECTRONICALLY, SELECT THE "DECLINE" BUTTON AT THE END OF THIS AGREEMENT.

1. LICENSE TO USE. Sun grants you a non-exclusive and non-transferable license for the internal use only of the accompanying software and documentation and any error corrections provided by Sun (collectively "Software"), by the number of users and the class of computer hardware for which the corresponding fee has been paid.
2. RESTRICTIONS. Software is confidential and copyrighted. Title to Software and all associated intellectual property rights is retained by Sun and/or its licensors. Except as specifically authorized in any Supplemental License Terms, you may not make copies of Software, other than a single copy of Software for archival purposes. Unless enforcement is prohibited by applicable law, you may not modify, decompile, or reverse engineer Software. You acknowledge that Software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility. Sun disclaims any express or implied warranty of fitness for such uses. No right, title or interest in or to any trademark, service mark, logo or trade name of Sun or its licensors is granted under this Agreement.

3. LIMITED WARRANTY. Sun warrants to you that for a period of ninety (90) days from the date of purchase, as evidenced by a copy of the receipt, the media on which Software is furnished (if any) will be free of defects in materials and workmanship under normal use. Except for the foregoing, Software is provided "AS IS". Your exclusive remedy and Sun's entire liability under this limited warranty will be at Sun's option to replace Software media or refund the fee paid for Software.

4. DISCLAIMER OF WARRANTY. UNLESS SPECIFIED IN THIS AGREEMENT, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT THESE DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

5. LIMITATION OF LIABILITY. TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. In no event will Sun's liability to you, whether in contract, tort (including negligence), or otherwise, exceed the amount paid by you for Software under this Agreement. The foregoing limitations will apply even if the above stated warranty fails of its essential purpose.

6. Termination. This Agreement is effective until terminated. You may terminate this Agreement at any time by destroying all copies of Software. This Agreement will terminate immediately without notice from Sun if you fail to comply with any provision of this Agreement. Upon Termination, you must destroy all copies of Software.

7. Export Regulations. All Software and technical data delivered under this Agreement are subject to US export control laws and may be subject to export or import regulations in other countries. You agree to comply strictly with all such laws and regulations and acknowledge that you have the responsibility to obtain such licenses to export, re-export, or import as may be required after delivery to you.

8. U.S. Government Restricted Rights. If Software is being acquired by or on behalf of the U.S. Government or by a U.S. Government prime contractor or subcontractor (at any tier), then the Government's rights in Software and accompanying documentation will be only as set forth in this Agreement; this is in accordance with 48 CFR 227.7201 through 227.7202-4 (for Department of Defense (DOD) acquisitions) and with 48 CFR 2.101 and 12.212 (for non-DOD acquisitions).

9. Governing Law. Any action related to this Agreement will be governed by California law and controlling U.S. federal law. No choice of law rules of

any jurisdiction will apply.

10. Severability. If any provision of this Agreement is held to be unenforceable, this Agreement will remain in effect with the provision omitted, unless omission would frustrate the intent of the parties, in which case this Agreement will immediately terminate.

11. Integration. This Agreement is the entire agreement between you and Sun relating to its subject matter. It supersedes all prior or contemporaneous oral or written communications, proposals, representations and warranties and prevails over any conflicting or additional terms of any quote, order, acknowledgment, or other communication between the parties relating to its subject matter during the term of this Agreement. No modification of this Agreement will be binding, unless in writing and signed by an authorized representative of each party.

JAVA OPTIONAL PACKAGE

JAVABEANS(TM) ACTIVATION FRAMEWORK, VERSION 1.0.2 SUPPLEMENTAL LICENSE TERMS

These supplemental license terms ("Supplemental Terms") add to or modify the terms of the Binary Code License Agreement (collectively, the "Agreement"). Capitalized terms not defined in these Supplemental Terms shall have the same meanings ascribed to them in the Agreement. These Supplemental Terms shall supersede any inconsistent or conflicting terms in the Agreement, or in any license contained within the Software.

1. Software Internal Use and Development License Grant. Subject to the terms and conditions of this Agreement, including, but not limited to Section 3 (Java(TM) Technology Restrictions) of these Supplemental Terms, Sun grants you a non-exclusive, non-transferable, limited license to reproduce internally and use internally the binary form of the Software, complete and unmodified, for the sole purpose of designing, developing and testing your Java applets and applications ("Programs").

2. License to Distribute Software. In addition to the license granted in Section 1 (Software Internal Use and Development License Grant) of these Supplemental Terms, subject to the terms and conditions of this Agreement, including but not limited to, Section 3 (Java Technology Restrictions) of these Supplemental Terms, Sun grants you a non-exclusive, non-transferable, limited license to reproduce and distribute the Software in binary code form only, provided that you (i) distribute the Software complete and unmodified and only bundled as part of your Programs, (ii) do not distribute additional software intended to replace any component(s) of the Software, (iii) do not remove or alter any proprietary legends or notices contained in the Software, (iv) only distribute the Software subject to a license agreement that protects Sun's interests consistent with the terms contained in this

Agreement, and (v) agree to defend and indemnify Sun and its licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of any and all Programs and/or Software.

3. Java Technology Restrictions. You may not modify the Java Platform Interface ("JPI", identified as classes contained within the "java" package or any subpackages of the "java" package), by creating additional classes within the JPI or otherwise causing the addition to or modification of the classes in the JPI. In the event that you create an additional class and associated API(s) which (i) extends the functionality of the Java platform, and (ii) is exposed to third party software developers for the purpose of developing additional software which invokes such additional API, you must promptly publish broadly an accurate specification for such API for free use by all developers. You may not create, or authorize your licensees to create additional classes, interfaces, or subpackages that are in any way identified as "java", "javax", "sun" or similar convention as specified by Sun in any naming convention designation.

4. No Support. Sun is under no obligation to support the Software or to provide you with updates or error corrections. You acknowledge that the Software may have defects or deficiencies which cannot or will not be corrected by Sun.

5. Trademarks and Logos. You acknowledge and agree as between you and Sun that Sun owns the SUN, SOLARIS, JAVA, JINI, FORTE, and iPLANET trademarks and all SUN, SOLARIS, JAVA, JINI, FORTE, and iPLANET-related trademarks, service marks, logos and other brand designations ("Sun Marks"), and you agree to comply with the Sun Trademark and Logo Usage Requirements currently located at <http://www.sun.com/policies/trademarks>. Any use you make of the Sun Marks inures to Sun's benefit.

6. Source Code. Software may contain source code that is provided solely for reference purposes pursuant to the terms of this Agreement. Source code may not be redistributed unless expressly provided for in this Agreement.

7. Termination for Infringement. Either party may terminate this Agreement immediately should any Software become, or in either party's opinion be likely to become, the subject of a claim of infringement of any intellectual property right.

For inquiries please contact: Sun Microsystems, Inc. 901 San Antonio Road,
Palo Alto, California 94303
(LFI#115020/Form ID#011801)

/*

* The Apache Software License, Version 1.1

*

*
 * Copyright (c) 1999-2002 The Apache Software Foundation. All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 * if any, must include the following acknowledgment:
 * "This product includes software developed by the
 * Apache Software Foundation (<http://www.apache.org/>)."
 * Alternately, this acknowledgment may appear in the software itself,
 * if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Xerces" and "Apache Software Foundation" must
 * not be used to endorse or promote products derived from this
 * software without prior written permission. For written
 * permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",
 * nor may "Apache" appear in their name, without prior written
 * permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * =====
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation and was

* originally based on software copyright (c) 1999, International
* Business Machines, Inc., <http://www.ibm.com>. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*/

Copyright (c) 2004 Kohsuke Kawaguchi

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and

subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any

such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above,

all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of

the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term

"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on

the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy

the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
w'. This is free software, and you are welcome to redistribute it under
certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by James
Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

```
"Sun designates this particular file as subject to the "Classpath"
exception as provided by Sun in the License file that accompanied this
code."
```

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library.

If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Copyright (c) 2001-@YEAR Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES OR LIABILITIES SUFFERED BY LICENSEE AS A RESULT OF OR RELATING TO USE, MODIFICATION OR DISTRIBUTION OF THE SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that Software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.

Copyright (c) 2003, Kohsuke Kawaguchi

All rights reserved.

Redistribution and use in source and binary forms,

with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project - <http://www.dom4j.org>

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2001-@@YEAR@@ Sun Microsystems, Inc. 901 San Antonio Road, Palo Alto, California, 94303, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in this product. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and other countries. This product is distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this product may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any. Third party software, including font technology, is copyrighted and licensed from Sun suppliers. Sun, the Sun logo, and Sun Microsystems are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>). Federal Acquisitions: Commercial Software - Government Users Subject to Standard License Terms and Conditions.

Copyright 2001-@@YEAR@@ Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, Californie 94303 tats-Unis. Tous droits rservs. Distribue par des licences qui en restreignent l'utilisation. Sun Microsystems, Inc. a les droits de propriit intellectuels relatants la technologie incorpore dans ce produit. En particulier, et sans la limitation, ces droits de propriit intellectuels peuvent inclure un

ou plus des brevets américains numéros <http://www.sun.com/patents> et un ou les brevets plus supplémentaires ou les applications de brevet en attente dans les États Unis et les autres pays. Ce produit ou document est protégé par un copyright et distribué avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y en a. Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun. Sun, le logo Sun, Sun Microsystems et sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-Unis et dans d'autres pays. Ce produit inclut le logiciel développé par la base de Apache Software Foundation (<http://www.apache.org/>). L'accord du gouvernement des États Unis est requis avant l'exportation du produit.

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in

compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you

also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special

exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this

License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

Copyright (c) 2001-2005 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES OR LIABILITIES SUFFERED BY LICENSEE AS A RESULT OF OR RELATING TO USE, MODIFICATION OR DISTRIBUTION OF THE SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that Software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.

=====
== NOTICE file corresponding to the section 4 d of ==

== the Apache License, Version 2.0, ==
== in this case for the Apache Ant distribution. ==

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

This product includes also software developed by :
- the W3C consortium (<http://www.w3c.org/>),
- the SAX project (<http://www.saxproject.org/>)

Please read the different LICENSE files present in the root directory of
this distribution.

/*

* The Apache Software License, Version 1.1

*

* Copyright (c) 2001-2003 Ant-Contrib project. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:

*

* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.

*

* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.

*

* 3. The end-user documentation included with the redistribution, if
* any, must include the following acknowledgement:

* "This product includes software developed by the
* Ant-Contrib project (<http://sourceforge.net/projects/ant-contrib/>)."
* Alternately, this acknowledgement may appear in the software itself,
* if and wherever such third-party acknowledgements normally appear.

*

* 4. The name Ant-Contrib must not be used to endorse or promote products
* derived from this software without prior written permission. For
* written permission, please contact
* ant-contrib-developers@lists.sourceforge.net.

*

* 5. Products derived from this software may not be called "Ant-Contrib"
* nor may "Ant-Contrib" appear in their names without prior written
* permission of the Ant-Contrib project.

*

* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE ANT-CONTRIB PROJECT OR ITS
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

* =====

*/

/*

* \$Id: license.txt,v 1.2 2006/04/01 06:01:50 jeffsuttor Exp \$

* %W% %E%

*/

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 1.

Definitions.

- 1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License means this document.
- 1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

- 3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.
- 3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.
- 3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.
- 3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.
- 3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it

absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR

A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL

OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable

basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2002-@@YEAR@@ Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES OR LIABILITIES SUFFERED BY LICENSEE AS A RESULT OF OR RELATING TO USE, MODIFICATION OR DISTRIBUTION OF THE SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE SOFTWARE,

EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The CyberNeko Software License, Version 1.0

(C) Copyright 2002-2005, Andy Clark. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:
 "This product includes software developed by Andy Clark."
 Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The names "CyberNeko" and "NekoHTML" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact andyc@cyberneko.net.
5. Products derived from this software may not be called "CyberNeko", nor may "CyberNeko" appear in their name, without prior written permission of the author.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR OTHER CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

This license is based on the Apache Software License, version 1.1.

Copyright 2001 Sun Microsystems, Inc. 901 San Antonio Road, Palo Alto, California, 94303, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in this product. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and other countries. This product is distributed under licenses restricting its use, copying, distribution, and decompilation. No part of this product may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any. Third party software, including font technology, is copyrighted and licensed from Sun suppliers. Sun, the Sun logo, and Sun Microsystems are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>). Federal Acquisitions: Commercial Software - Government Users Subject to Standard License Terms and Conditions.

Copyright 2001 Sun Microsystems, Inc., 901 San Antonio Road, Palo Alto, Californie 94303 tats-Unis. Tous droits rservs. Distribue par des licences qui en restreignent l'utilisation. Sun Microsystems, Inc. a les droits de propriit intellectuels relatants la technologie incorpore dans ce produit. En particulier, et sans la limitation, ces droits de propriit intellectuels peuvent inclure un ou plus des brevets amricains numrs <http://www.sun.com/patents> et un ou les brevets plus supplmentaires ou les applications de brevet en attente dans les Etats Unis et les autres pays. Ce produit ou document est protg par un copyright et distribu avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la dcompilation. Aucune partie de ce produit ou document ne peut tre reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation pralable et crite de Sun et de ses bailleurs de licence, s'il y en a. Le logiciel dtenu par des tiers, et qui comprend la technologie relative aux polices de caractres, est protg par un copyright et licenci par des fournisseurs de Sun. Sun, le logo Sun, Sun Microsystems et sont des marques de fabrique ou des marques d'pos'es de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays. Ce produit inclut le logiciel dvelopp par la base de Apache Software Foundation (<http://www.apache.org/>). L'accord du gouvernement des tats Unis est requis avant l'exportation du produit.

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

- 1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. "Executable" means the Covered Software in any form other than Source Code.
- 1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.
- 1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. "License" means this document.
- 1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.
- 1.9. "Modifications" means the Source Code and Executable form of any of the following:
- A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;
 - B. Any new file that contains any part of the Original Software or previous Modification; or
 - C. Any new file that is contributed or otherwise made available under the terms of this License.
- 1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.
- 1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.
- 1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.
- 1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made

available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day

notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this

License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering

equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent

modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

/*

* Apache License
* Version 2.0, January 2004
* <http://www.apache.org/licenses/>
*

* TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
*

* 1. Definitions.
*

* "License" shall mean the terms and conditions for use, reproduction,
* and distribution as defined by Sections 1 through 9 of this document.
*

* "Licensor" shall mean the copyright owner or entity authorized by
* the copyright owner that is granting the License.
*

* "Legal Entity" shall mean the union of the acting entity and all
* other entities that control, are controlled by, or are under common
* control with that entity. For the purposes of this definition,
* "control" means (i) the power, direct or indirect, to cause the
* direction or management of such entity, whether by contract or
* otherwise, or (ii) ownership of fifty percent (50%) or more of the
* outstanding shares, or (iii) beneficial ownership of such entity.
*

* "You" (or "Your") shall mean an individual or Legal Entity
* exercising permissions granted by this License.
*

* "Source" form shall mean the preferred form for making modifications,
* including but not limited to software source code, documentation
* source, and configuration files.
*

* "Object" form shall mean any form resulting from mechanical
* transformation or translation of a Source form, including but
* not limited to compiled object code, generated documentation,
* and conversions to other media types.
*

* "Work" shall mean the work of authorship, whether in Source or
* Object form, made available under the License, as indicated by a
* copyright notice that is included in or attached to the work
* (an example is provided in the Appendix below).
*

* "Derivative Works" shall mean any work, whether in Source or Object
* form, that is based on (or derived from) the Work and for which the

* editorial revisions, annotations, elaborations, or other modifications
* represent, as a whole, an original work of authorship. For the purposes
* of this License, Derivative Works shall not include works that remain
* separable from, or merely link (or bind by name) to the interfaces of,
* the Work and Derivative Works thereof.

* "Contribution" shall mean any work of authorship, including
* the original version of the Work and any modifications or additions
* to that Work or Derivative Works thereof, that is intentionally
* submitted to Licensor for inclusion in the Work by the copyright owner
* or by an individual or Legal Entity authorized to submit on behalf of
* the copyright owner. For the purposes of this definition, "submitted"
* means any form of electronic, verbal, or written communication sent
* to the Licensor or its representatives, including but not limited to
* communication on electronic mailing lists, source code control systems,
* and issue tracking systems that are managed by, or on behalf of, the
* Licensor for the purpose of discussing and improving the Work, but
* excluding communication that is conspicuously marked or otherwise
* designated in writing by the copyright owner as "Not a Contribution."

* "Contributor" shall mean Licensor and any individual or Legal Entity
* on behalf of whom a Contribution has been received by Licensor and
* subsequently incorporated within the Work.

* 2. Grant of Copyright License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* copyright license to reproduce, prepare Derivative Works of,
* publicly display, publicly perform, sublicense, and distribute the
* Work and such Derivative Works in Source or Object form.

* 3. Grant of Patent License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* (except as stated in this section) patent license to make, have made,
* use, offer to sell, sell, import, and otherwise transfer the Work,
* where such license applies only to those patent claims licensable
* by such Contributor that are necessarily infringed by their
* Contribution(s) alone or by combination of their Contribution(s)
* with the Work to which such Contribution(s) was submitted. If You
* institute patent litigation against any entity (including a
* cross-claim or counterclaim in a lawsuit) alleging that the Work
* or a Contribution incorporated within the Work constitutes direct
* or contributory patent infringement, then any patent licenses
* granted to You under this License for that Work shall terminate
* as of the date such litigation is filed.

* 4. Redistribution. You may reproduce and distribute copies of the

* Work or Derivative Works thereof in any medium, with or without
* modifications, and in Source or Object form, provided that You
* meet the following conditions:

*

* (a) You must give any other recipients of the Work or
* Derivative Works a copy of this License; and

*

* (b) You must cause any modified files to carry prominent notices
* stating that You changed the files; and

*

* (c) You must retain, in the Source form of any Derivative Works
* that You distribute, all copyright, patent, trademark, and
* attribution notices from the Source form of the Work,
* excluding those notices that do not pertain to any part of
* the Derivative Works; and

*

* (d) If the Work includes a "NOTICE" text file as part of its
* distribution, then any Derivative Works that You distribute must
* include a readable copy of the attribution notices contained
* within such NOTICE file, excluding those notices that do not
* pertain to any part of the Derivative Works, in at least one
* of the following places: within a NOTICE text file distributed
* as part of the Derivative Works; within the Source form or
* documentation, if provided along with the Derivative Works; or,
* within a display generated by the Derivative Works, if and
* wherever such third-party notices normally appear. The contents
* of the NOTICE file are for informational purposes only and
* do not modify the License. You may add Your own attribution
* notices within Derivative Works that You distribute, alongside
* or as an addendum to the NOTICE text from the Work, provided
* that such additional attribution notices cannot be construed
* as modifying the License.

*

* You may add Your own copyright statement to Your modifications and
* may provide additional or different license terms and conditions
* for use, reproduction, or distribution of Your modifications, or
* for any such Derivative Works as a whole, provided Your use,
* reproduction, and distribution of the Work otherwise complies with
* the conditions stated in this License.

*

* 5. Submission of Contributions. Unless You explicitly state otherwise,
* any Contribution intentionally submitted for inclusion in the Work
* by You to the Licensor shall be under the terms and conditions of
* this License, without any additional terms or conditions.
* Notwithstanding the above, nothing herein shall supersede or modify
* the terms of any separate license agreement you may have executed
* with Licensor regarding such Contributions.

*

- * 6. Trademarks. This License does not grant permission to use the trade
* names, trademarks, service marks, or product names of the Licensor,
* except as required for reasonable and customary use in describing the
* origin of the Work and reproducing the content of the NOTICE file.
*
- * 7. Disclaimer of Warranty. Unless required by applicable law or
* agreed to in writing, Licensor provides the Work (and each
* Contributor provides its Contributions) on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
* implied, including, without limitation, any warranties or conditions
* of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
* PARTICULAR PURPOSE. You are solely responsible for determining the
* appropriateness of using or redistributing the Work and assume any
* risks associated with Your exercise of permissions under this License.
*
- * 8. Limitation of Liability. In no event and under no legal theory,
* whether in tort (including negligence), contract, or otherwise,
* unless required by applicable law (such as deliberate and grossly
* negligent acts) or agreed to in writing, shall any Contributor be
* liable to You for damages, including any direct, indirect, special,
* incidental, or consequential damages of any character arising as a
* result of this License or out of the use or inability to use the
* Work (including but not limited to damages for loss of goodwill,
* work stoppage, computer failure or malfunction, or any and all
* other commercial damages or losses), even if such Contributor
* has been advised of the possibility of such damages.
*
- * 9. Accepting Warranty or Additional Liability. While redistributing
* the Work or Derivative Works thereof, You may choose to offer,
* and charge a fee for, acceptance of support, warranty, indemnity,
* or other liability obligations and/or rights consistent with this
* License. However, in accepting such obligations, You may act only
* on Your own behalf and on Your sole responsibility, not on behalf
* of any other Contributor, and only if You agree to indemnify,
* defend, and hold each Contributor harmless for any liability
* incurred by, or claims asserted against, such Contributor by reason
* of your accepting any such warranty or additional liability.
*

* END OF TERMS AND CONDITIONS

*

* APPENDIX: How to apply the Apache License to your work.

*

* To apply the Apache License to your work, attach the following
* boilerplate notice, with the fields enclosed by brackets "[]"
* replaced with your own identifying information. (Don't include
* the brackets!) The text should be enclosed in the appropriate
* comment syntax for the file format. We also recommend that a
* file or class name and description of purpose be included on the

* same "printed page" as the copyright notice for easier
 * identification within third-party archives.
 *
 * Copyright [yyyy] [name of copyright owner]
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * <http://www.apache.org/licenses/LICENSE-2.0>
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
 /* =====
 * The Apache Software License, Version 1.1
 *
 * Copyright (c) 2001 The Apache Software Foundation. All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 * if any, must include the following acknowledgment:
 * "This product includes software developed by the
 * Apache Software Foundation (<http://www.apache.org/>)."
 * Alternately, this acknowledgment may appear in the software itself,
 * if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Apache" and "Apache Software Foundation" and
 * "Apache BCEL" must not be used to endorse or promote products
 * derived from this software without prior written permission. For
 * written permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",

* "Apache BCEL", nor may "Apache" appear in their name, without
 * prior written permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.

* =====

*
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation. For more
 * information on the Apache Software Foundation, please see
 * <<http://www.apache.org/>>.

*/
 Copyright (c) 2000-2003 Daisuke Okajima and Kohsuke Kawaguchi.
 All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:

1. Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if
 any, must include the following acknowledgment:

"This product includes software developed by Daisuke Okajima
 and Kohsuke Kawaguchi (<http://relaxngcc.sf.net/>)."

Alternately, this acknowledgment may appear in the software itself,
 if and wherever such third-party acknowledgments normally appear.

4. The names of the copyright holders must not be used to endorse or
 promote products derived from this software without prior written
 permission. For written permission, please contact the copyright

holders.

5. Products derived from this software may not be called "RELAXNGCC", nor may "RELAXNGCC" appear in their name, without prior written permission of the copyright holders.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
DO NOT TRANSLATE OR LOCALIZE

%%The following software may be included in this product:

XML-Namespacesupport

Use of any of this software is governed by the terms of the license below:

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or

copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
 - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
 - b) use the modified Package only within your corporation or organization.
 - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
 - d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
 - a) distribute a Standard Version of the executables and library files,

together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

Additional License(s)

Copyright (c) 2001-2005 Robin Berjon. All rights reserved.

%% The following software may be included in this product:

iso-relax.jar

Use of any of this software is governed by the terms of the license below:

The MIT License

Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,

ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 200

Additional License(s)

"copyright" and "license" results in the following hits:

- > * The above copyright notice and this permission notice shall be included
- > * distribute, sublicense, and/or sell copies of the Software, and to

GNU, GPL, LGPL reveals no hit. "?" hits a lot of things but none of them are relevant to the licensing terms.

%%The following software may be included in this product:

relaxngDatatype.jar

Use of any of this software is governed by the terms of the license below:

Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the names of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Additional License(s)

Got the following hits. No hit for GNU, GPL, LGPL.

- > Redistributions of source code must retain the above copyright
- > Neither the names of the copyright holders nor the names of its
- > this license is the BSD license.

%%The following software may be included in this product:

RELAX NG Object Model/Parser

Use of any of this software is governed by the terms of the license below:

The MIT License

Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional License(s)

See <https://rngom.dev.java.net/doc/index.html>

%The following software may be included in this product:

RelaxNGCC

Use of any of this software is governed by the terms of the license below:

Copyright (c) 2000-2003 Daisuke Okajima and Kohsuke Kawaguchi.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

"This product includes software developed by Daisuke Okajima and Kohsuke Kawaguchi (<http://relaxngcc.sf.net/>)."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact the copyright holders.
5. Products derived from this software may not be called "RELAXNGCC", nor may "RELAXNGCC" appear in their name, without prior written permission of the copyright holders.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Additional License(s)

None found

%%The following software may be included in this product:

XML Resolver library

Use of any of this software is governed by the terms of the license below:

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Additional License(s)

All occurrences of copyright, license and (c) refer to the Apache 1.1 license.

No occurrences of GNU, GPL, LGPL.

%%The following software may be included in this product:

Stax API (only)

Use of any of this software is governed by the terms of the license below:

Streaming API for XML (JSR-173) Specification

Reference Implementation

License Agreement

READ THE TERMS OF THIS (THE "AGREEMENT") CAREFULLY BEFORE VIEWING OR USING THE SOFTWARE LICENS

ED HEREUNDER. BY VIEWING OR USING THE SOFTWARE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF

YOU ARE ACCESSING THE SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL THESE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO ORIGINAL CONTRIBUTOR, DEFINED HEREIN.

1.0 DEFINITIONS.

1.1. "BEA" means BEA Systems, Inc., the licensor of the Original Code.

1.2. "Contributor" means BEA and each entity that creates or contributes to the creation of Modifications.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof and corresponding documentation released with the source code.

1.4. "Executable" means Covered Code in any form other than Source Code.

1.5. "FCS" means first commercial shipment of a product.

1.6. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

(a) Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

(b) Any new file that contains any part of the Original Code or previous Modifications.

1.7. "Original Code" means Source Code of computer software code Reference Implementation.

1.8. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent for which the grantor has the right to grant a license.

1.9. "Reference Implementation" means the prototype or "proof of concept"

implementation of
the Specification developed and made available for license by or on behalf of BEA.

1.10. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated documentation, interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice.

1.11. "Specification" means the written specification for the Streaming API for XML, Java technology developed pursuant to the Java Community Process.

1.12. "Technology Compatibility Kit" or "TCK" means the documentation, testing tools and test suites associated with the Specification as may be revised by BEA from time to time, that is provided so that an implementer of the Specification may determine if its implementation is compliant with the Specification.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this Agreement or a future version of this Agreement issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2.0 SOURCE CODE LICENSE.

2.1. Copyright Grant. Subject to the terms of this Agreement, each Contributor hereby grants You a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Covered Code of such Contributor, if any, and such derivative works, in Source Code and Executable form.

2.2. Patent Grant. Subject to the terms of this Agreement, each Contributor hereby grants You a non-exclusive, worldwide, royalty-free patent license under the Patent Claims to make, use, sell, offer to sell, import and otherwise transfer the Covered Code prepared and provided by such Contributor, if any, in Source Code and Executable form. This patent license shall apply to the Covered Code if, at the time a Modification is added by the Contributor, such addition of the Modification causes such combination to be covered by the Patent Claims. The patent license shall not apply to any other combinations which include the Modification.

2.3. Conditions to Grants. You understand that although each Contributor grants the licenses to the Covered Code prepared by it, no assurances are provided by any Contributor that the Covered Code does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to You for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, You hereby assume sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow You to distribute Covered Code, it is Your responsibility to acquire that license before distributing such code.

2.4. Contributors' Representation. Each Contributor represents that to its knowledge it has sufficient copyright rights in the Covered Code it provides, if any, to grant the copyright license set forth in this Agreement.

3.0 DISTRIBUTION RESTRICTIONS.

3.1. Application of Agreement.

The Modifications which You create or to which You contribute are governed by the terms of this Agreement, including without limitation Section 2.0. The Source Code version of Covered Code may be distributed only under the terms of this Agreement or a future version

of this Agreement released under Section 6.1, and You must include a copy of this Agreement with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this Agreement or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.3.

3.2. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by BEA and including the name of BEA in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

%%The following software may be included in this product:

XMLWriter

Use of any of this software is governed by the terms of the license below:

XMLWriter IS FREE

I hereby abandon any property rights to XMLWriter 0.1, and release all of the XMLWriter 0.1 source code, compiled code, and documentation contained in this distribution into the Public Domain. XMLWriter comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson
david@megginson.com
2000-04-19

Additional License(s)

I grep-ed the source. GNU and GPL has no hits, '?' yields 11 hits but none of them

are license related. "copyright" and "license" yield no hits either.

/*

* The Apache Software License, Version 1.1

*

*

* Copyright (c) 1999-2004 The Apache Software Foundation. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

*

* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

*

* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

*

* 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

* "This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>)."

* Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

*

* 4. The names "Xerces" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

*

* 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

*

* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT

* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

* =====

*

* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation and was
* originally based on software copyright (c) 1999, International
* Business Machines, Inc., <http://www.ibm.com>. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.

*/

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation,

method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising,

directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The GlassFish code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

xml-commons/LICENSE.txt \$Id: LICENSE.txt 226068 2003-07-06 03:27:45Z crossley \$

See README.txt for additional licensing information.

```
/* =====
```

```
* The Apache Software License, Version 1.1
```

```
*
```

```
* Copyright (c) 2001-2003 The Apache Software Foundation. All rights  
* reserved.
```

```
*
```

```
* Redistribution and use in source and binary forms, with or without  
* modification, are permitted provided that the following conditions  
* are met:
```

```
*
```

```
* 1. Redistributions of source code must retain the above copyright  
* notice, this list of conditions and the following disclaimer.
```

```
*
```

```
* 2. Redistributions in binary form must reproduce the above copyright  
* notice, this list of conditions and the following disclaimer in  
* the documentation and/or other materials provided with the  
* distribution.
```

```
*
```

```
* 3. The end-user documentation included with the redistribution,  
* if any, must include the following acknowledgment:
```

```
* "This product includes software developed by the
```

```
* Apache Software Foundation (http://www.apache.org/)."
```

```
* Alternately, this acknowledgment may appear in the software itself,  
* if and wherever such third-party acknowledgments normally appear.
```

```
*
```

```
* 4. The names "Apache" and "Apache Software Foundation" must  
* not be used to endorse or promote products derived from this  
* software without prior written permission. For written  
* permission, please contact apache@apache.org.
```

```
*
```

```
* 5. Products derived from this software may not be called "Apache",  
* nor may "Apache" appear in their name, without prior written  
* permission of the Apache Software Foundation.
```

```
*
```

```
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
```

* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

* =====

*

* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation. For more
* information on the Apache Software Foundation, please see
* <<http://www.apache.org/>>.

*/

1.29 fabric8-kubernetes-model-coordination 4.10.3

1.29.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.30 jakarta-dependency-injection 2.0.1

1.30.1 Available under license :

Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency Injection project.

* Project home: <https://projects.eclipse.org/projects/cdi.batch>

Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Apache License, Version 2.0 which is available at <https://www.apache.org/licenses/LICENSE-2.0>.

SPDX-License-Identifier: Apache-2.0

Source Code

The project maintains the following source code repositories:

<https://github.com/eclipse-ee4j/injection-api>
<https://github.com/eclipse-ee4j/injection-spec>
<https://github.com/eclipse-ee4j/injection-tck>

Third-party Content

This project leverages the following third party content.

None

Cryptography

None

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.31 fabric8-:::-kubernetes-model-:::- scheduling 4.10.3

1.31.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.32 dropwizard-jdbi3-support 2.0.28

1.32.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.33 protobuf-java-format 1.2

1.33.1 Available under license :

Copyright (c) 2009, Orbitz World Wide
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Orbitz World Wide nor the names of its contributors may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, Orbitz LLC

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the Orbitz LLC nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.34 junit-jupiter-junit-jupiter-api 5.8.2

1.34.1 Available under license :

Eclipse Public License - v 2.0

=====

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. Definitions

Contribution means:

* **a)** in the case of the initial Contributor, the initial content Distributed under this Agreement, and

* **b)** in the case of each subsequent Contributor:

* **i)** changes to the Program, and

* **ii)** additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **a)** distributing or **b)** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. Grant of Rights

* **a)** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive,

worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

****b)**** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

****c)**** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

****d)**** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

****e)**** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. Requirements

****3.1)**** If a Contributor Distributes the Program in any form, then:

****a)**** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

****b)**** the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

****i)**** effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

****ii)**** effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

****iii)**** does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

****iv)**** requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

****3.2)**** When the Program is Distributed as Source Code:

****a)**** it must be made available under this Agreement, or if the Program ****i)**** is combined with other material

in a separate file or files made available under a Secondary License, and **(ii)** the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: **a)** promptly notify the Commercial Contributor in writing of such claim, and **b)** allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

(INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Open Source Licenses

=====

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

1.35 io-grpc-grpc-api 1.39.0

1.35.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2020 Istio Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Envoy

Copyright 2016-2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner].

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

protoc-gen-validate

Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

zero-allocation-hashing

Copyright 2015 Higher Frequency Trading <http://www.higherfrequencytrading.com>

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/*

* Copyright 2015 The gRPC Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product contains a modified portion of 'OkHttp', an open source HTTP & SPDY client for Android and Java applications, which can be obtained at:

* LICENSE:

* okhttp/third_party/okhttp/LICENSE (Apache License 2.0)

* HOMEPAGE:

- * <https://github.com/square/okhttp>
- * LOCATION_IN_GRPC:
- * [okhttp/third_party/okhttp](https://github.com/square/okhttp/tree/master/okhttp-third-party/okhttp)

This product contains a modified portion of 'Envoy', an open source cloud-native high-performance edge/middle/service proxy, which can be obtained at:

- * LICENSE:
- * [xds/third_party/envoy/LICENSE](https://github.com/envoyproxy/envoy/blob/master/licenses/LICENSE) (Apache License 2.0)
- * NOTICE:
- * [xds/third_party/envoy/NOTICE](https://github.com/envoyproxy/envoy/blob/master/licenses/NOTICE)
- * HOMEPAGE:
- * <https://www.envoyproxy.io>
- * LOCATION_IN_GRPC:
- * [xds/third_party/envoy](https://github.com/envoyproxy/envoy)

This product contains a modified portion of 'protoc-gen-validate (PGV)', an open source protoc plugin to generate polyglot message validators, which can be obtained at:

- * LICENSE:
- * [xds/third_party/protoc-gen-validate/LICENSE](https://github.com/envoyproxy/protoc-gen-validate/blob/master/licenses/LICENSE) (Apache License 2.0)
- * NOTICE:
- * [xds/third_party/protoc-gen-validate/NOTICE](https://github.com/envoyproxy/protoc-gen-validate/blob/master/licenses/NOTICE)
- * HOMEPAGE:
- * <https://github.com/envoyproxy/protoc-gen-validate>
- * LOCATION_IN_GRPC:
- * [xds/third_party/protoc-gen-validate](https://github.com/envoyproxy/protoc-gen-validate)

This product contains a modified portion of 'udpa', an open source universal data plane API, which can be obtained at:

- * LICENSE:
- * [xds/third_party/udpa/LICENSE](https://github.com/envoyproxy/udpa/blob/master/licenses/LICENSE) (Apache License 2.0)
- * HOMEPAGE:
- * <https://github.com/envoyproxy/udpa>
- * LOCATION_IN_GRPC:
- * [xds/third_party/udpa](https://github.com/envoyproxy/udpa)

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

1.36 logback-access-module 1.2.9

1.36.1 Available under license :

No license file was found, but licenses were detected in source scan.

-- Logback: the reliable, generic, fast and flexible logging framework.

-- Copyright (C) 1999-2010, QOS.ch. All rights reserved.

--

-- See <http://logback.qos.ch/license.html> for the applicable licensing

-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

--

-- It is intended for Oracle databases.

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;
```

```
CREATE TABLE access_event
```

```
(
```

```
  timestmp      NUMBER(20) NOT NULL,
```

```
  requestURI    VARCHAR(254),
```

```
  requestURL    VARCHAR(254),
```

```
  remoteHost    VARCHAR(254),
```

```
  remoteUser    VARCHAR(254),
```

```
  remoteAddr    VARCHAR(254),
```

```
  protocol      VARCHAR(254),
```

```
  method        VARCHAR(254),
```

```
  serverName    VARCHAR(254),
```

```
  postContent   VARCHAR(254),
```

```
  event_id      NUMBER(20) PRIMARY KEY
```

```
);
```

-- the / suffix may or may not be needed depending on your SQL Client

-- Some SQL Clients, e.g. Squirrel SQL has trouble with the following

-- trigger creation command, while SQLPlus (the basic SQL Client which

-- ships with Oracle) has no trouble at all.

```
CREATE TRIGGER access_event_id_seq_trig
```

```
BEFORE INSERT ON access_event
```

```
FOR EACH ROW
```

```
BEGIN
```

```
  SELECT access_event_id_seq.NEXTVAL
```

```
  INTO :NEW.event_id
```



```
FROM DUAL;
END access_event_id_seq_trig;
/
```

```
CREATE TABLE access_event_header
(
  event_id    NUMBER(20) NOT NULL,
  header_key  VARCHAR2(254) NOT NULL,
  header_value VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-
jar/ch/qos/logback/access/db/script/oracle.sql
```

No license file was found, but licenses were detected in source scan.

```
# Logback: the reliable, generic, fast and flexible logging framework.
```

```
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.
```

```
#
```

```
# See http://logback.qos.ch/license.html for the applicable licensing
```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender
```

```
#
```

```
# It is intended for PostgreSQL databases.
```

```
DROP TABLE access_event_exception;
```

```
DROP SEQUENCE access_event_id_seq;
```

```
DROP TABLE access_event;
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE access_event
```

```
(
  timestmp    BIGINT NOT NULL,
  requestURI  VARCHAR(254),
  requestURL  VARCHAR(254),
  remoteHost  VARCHAR(254),
  remoteUser  VARCHAR(254),
  remoteAddr  VARCHAR(254),
  protocol    VARCHAR(254),
  method      VARCHAR(254),
  serverName  VARCHAR(254),
  postContent VARCHAR(254),
  event_id    BIGINT DEFAULT nextval('access_event_id_seq') PRIMARY KEY
);
```

```

CREATE TABLE access_event_header
(
  event_id    BIGINT NOT NULL,
  header_key  VARCHAR(254) NOT NULL,
  header_value VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

```

Found in path(s):

```

* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-
jar/ch/qos/logback/access/db/script/postgresql.sql

```

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: logback-access module

Bundle-License: <http://www.eclipse.org/legal/epl-v10.html>, <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>

Bundle-SymbolicName: ch.qos.logback.access

Archiver-Version: Plexus Archiver

Built-By: ceki

Bnd-LastModified: 1639708609480

Bundle-ManifestVersion: 2

Bundle-RequiredExecutionEnvironment: JavaSE-1.6

Bundle-DocURL: <http://www.qos.ch>

Bundle-Vendor: QOS.ch

Import-Package: javax.servlet;version="2.5";resolution:=optional,javax.servlet.http;version="2.5";resolution:=optional,javax.management;resolution:=optional,org.apache.catalina;version="8.5.9";resolution:=optional,org.apache.catalina.connector;version="8.5.9";resolution:=optional,org.apache.catalina.valves;version="8.5.9";resolution:=optional,org.eclipse.jetty.http;version="8.2.0.v20160908";resolution:=optional,org.eclipse.jetty.server;version="8.2.0.v20160908";resolution:=optional,org.eclipse.jetty.util.component;version="8.2.0.v20160908";resolution:=optional,ch.qos.logback.core;version="[1.2,2)",ch.qos.logback.core.boolex;version="[1.2,2)",ch.qos.logback.core.filter;version="[1.2,2)",ch.qos.logback.core.helpers;version="[1.2,2)",ch.qos.logback.core.html;version="[1.2,2)",ch.qos.logback.core.joran;version="[1.2,2)",ch.qos.logback.core.joran.action;version="[1.2,2)",ch.qos.logback.core.joran.conditional;version="[1.2,2)",ch.qos.logback.core.joran.event;version="[1.2,2)",ch.qos.logback.core.joran.spi;version="[1.2,2)",ch.qos.logback.core.net;version="[1.2,2)",ch.qos.logback.core.net.server;version="[1.2,2)",ch.qos.logback.core.net.ssl;version="[1.2,2)",ch.qos.logback.core.pattern;version="[1.2,2)",ch.qos.logback.core.pattern.color;version="[1.2,2)",ch.qos.logback.core.pattern.parser;version="[1.2,2)",ch.qos.logback.core.sift;version="[1.2,2)",ch.qos.logback.core.spi;version="[1.2,2)",ch.qos.logback.core.status;version="[1.2,2)"

,ch.qos.logback.core.util;version="[1.2,2)",org.apache.coyote;resolution:=optional,org.xml.sax,ch.qos.logback.core.rolling;version="[1.2,2)",ch.qos.logback.core.rolling.helper;version="[1.2,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Originally-Created-By: Apache Maven Bundle Plugin
Export-Package: ch.qos.logback.access;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core.pattern,ch.qos.logback.core.status,javax.servlet.http",ch.qos.logback.access.boolex;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core.boolex",ch.qos.logback.access.db.script;version="1.2.9",ch.qos.logback.access.filter;version="1.2.9";uses="ch.qos.logback.core.filter,ch.qos.logback.core.spi",ch.qos.logback.access.html;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core.html",ch.qos.logback.access.jetty;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,org.eclipse.jetty.server,org.eclipse.jetty.util.component",ch.qos.logback.access.joran;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core.joran,ch.qos.logback.core.joran.spi",ch.qos.logback.access.joran.action;version="1.2.9";uses="ch.qos.logback.core.joran.action,ch.qos.logback.core.joran.spi,org.xml.sax",ch.qos.logback.access.net;version="1.2.9";uses="ch.qos.logback.access,ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.boolex,ch.qos.logback.core.helpers,ch.qos.logback.core.net,ch.qos.logback.core.pattern,ch.qos.logback.core.spi",ch.qos.logback.access.net.server;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core.net.server,ch.qos.logback.core.spi",ch.qos.logback.access.pattern;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.pattern,ch.qos.logback.core.spi,ch.qos.logback.core.status",ch.qos.logback.access.servlet;version="1.2.9";uses="javax.servlet,javax.servlet.http",ch.qos.logback.access.sift;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.joran.action,ch.qos.logback.core.joran.event,ch.qos.logback.core.joran.spi,ch.qos.logback.core.sift,org.xml.sax",ch.qos.logback.access.spi;version="1.2.9";uses="ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,javax.servlet.http",ch.qos.logback.access.tomcat;version="1.2.9";uses="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,ch.qos.logback.core.status,javax.servlet,org.apache.catalina,org.apache.catalina.connector,org.apache.catalina.valves"

Bundle-Name: Logback Access Module
Bundle-Version: 1.2.9
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_121

Found in path(s):

* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

```
# Logback: the reliable, generic, fast and flexible logging framework.
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.
#
# See http://logback.qos.ch/license.html for the applicable licensing
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for IBM DB2 databases.
#
# WARNING WARNING WARNING WARNING
# =====
# This SQL script has not been tested on an actual DB2
# instance. It may contain errors or even invalid SQL
# statements.
```

```
DROP TABLE access_event_header;
DROP TABLE access_event;
```

```
CREATE TABLE access_event
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
);
```

```
CREATE TABLE access_event_header
(
  event_id      INTEGER NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-
jar/ch/qos/logback/access/db/script/db2.sql
```

No license file was found, but licenses were detected in source scan.

```
# Logback: the reliable, generic, fast and flexible logging framework.  
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.  
#  
# See http://logback.qos.ch/license.html for the applicable licensing  
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender  
#  
# It is intended for HSQL databases.
```

```
DROP TABLE access_event_header IF EXISTS;  
DROP TABLE access_event IF EXISTS;
```

```
CREATE TABLE access_event (  
  timestmp BIGINT NOT NULL,  
  requestURI VARCHAR(254),  
  requestURL VARCHAR(254),  
  remoteHost VARCHAR(254),  
  remoteUser VARCHAR(254),  
  remoteAddr VARCHAR(254),  
  protocol VARCHAR(254),  
  method VARCHAR(254),  
  serverName VARCHAR(254),  
  postContent VARCHAR(254),  
  event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE access_event_header (  
  event_id BIGINT NOT NULL,  
  header_key VARCHAR(254) NOT NULL,  
  header_value LONGVARCHAR,  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY (event_id) REFERENCES access_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-  
jar/ch/qos/logback/access/db/script/hsqldb.sql
```

No license file was found, but licenses were detected in source scan.

```
# Logback: the reliable, generic, fast and flexible logging framework.  
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.  
#  
# See http://logback.qos.ch/license.html for the applicable licensing  
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender.  
#  
# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with  
# INNODB tables.
```

```
BEGIN;  
DROP TABLE IF EXISTS access_event_header;  
DROP TABLE IF EXISTS access_event;  
COMMIT;  
  
BEGIN;  
CREATE TABLE access_event  
(  
  timestmp      BIGINT NOT NULL,  
  requestURI    VARCHAR(254),  
  requestURL    VARCHAR(254),  
  remoteHost    VARCHAR(254),  
  remoteUser    VARCHAR(254),  
  remoteAddr    VARCHAR(254),  
  protocol      VARCHAR(254),  
  method        VARCHAR(254),  
  serverName    VARCHAR(254),  
  postContent   VARCHAR(254),  
  event_id      BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY  
);  
COMMIT;
```

```
BEGIN;  
CREATE TABLE access_event_header  
(  
  event_id      BIGINT NOT NULL,  
  header_key    VARCHAR(254) NOT NULL,  
  header_value  VARCHAR(1024),  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
);  
COMMIT;
```

Found in path(s):

```
* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-  
jar/ch/qos/logback/access/db/script/mysql.sql
```

No license file was found, but licenses were detected in source scan.

-- Logback: the reliable, generic, fast and flexible logging framework.

-- Copyright (C) 1999-2010, QOS.ch. All rights reserved.

--

-- See <http://logback.qos.ch/license.html> for the applicable licensing

```
-- conditions.  
  
-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender  
--
```

```
DROP TABLE access_event_header
```

```
DROP TABLE access_event
```

```
CREATE TABLE access_event
```

```
(  
  timestmp      BIGINT NOT NULL,  
  requestURI    VARCHAR(254),  
  requestURL    VARCHAR(254),  
  remoteHost    VARCHAR(254),  
  remoteUser    VARCHAR(254),  
  remoteAddr    VARCHAR(254),  
  protocol      VARCHAR(254),  
  method        VARCHAR(254),  
  serverName    VARCHAR(254),  
  postContent   VARCHAR(254),  
  event_id      INT NOT NULL identity,  
  PRIMARY KEY(event_id)  
)
```

```
CREATE TABLE access_event_header
```

```
(  
  event_id      INT NOT NULL,  
  header_key    VARCHAR(254) NOT NULL,  
  header_value  VARCHAR(1024),  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
)
```

Found in path(s):

```
* /opt/cola/permits/1473592185_1668797828.4076514/0/logback-access-1-2-9-  
jar/ch/qos/logback/access/db/script/msSQLServer.sql
```

1.37 dropwizard-utility-classes 2.0.28

1.37.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.38 io-grpc-grpc-protobuf-lite 1.39.0

1.38.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 The gRPC Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1183892729_1655096107.2169387/0/grpc-protobuf-lite-1-39-0-sources-
jar/io/grpc/protobuf-lite/ProtoLiteUtils.java
* /opt/cola/permits/1183892729_1655096107.2169387/0/grpc-protobuf-lite-1-39-0-sources-
jar/io/grpc/protobuf-lite/ProtoInputStream.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017 The gRPC Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

* /opt/cola/permits/1183892729_1655096107.2169387/0/grpc-protobuf-lite-1-39-0-sources-jar/io/grpc/protobuf-lite/package-info.java

1.39 rocksdb-jni 6.6.4

1.39.1 Available under license :

Attribution 4.0 International

=====

Creative Commons Corporation ("Creative Commons") is not a law firm and does not provide legal services or legal advice. Distribution of Creative Commons public licenses does not create a lawyer-client or other relationship. Creative Commons makes its licenses and related information available on an "as-is" basis. Creative Commons gives no warranties regarding its licenses, any material licensed under their terms and conditions, or any related information. Creative Commons disclaims all liability for damages resulting from their use to the fullest extent possible.

Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and conditions that creators and other rights holders may use to share original works of authorship and other material subject to copyright and certain other rights specified in the public license below. The following considerations are for informational purposes only, are not exhaustive, and do not form part of our licenses.

Considerations for licensors: Our public licenses are intended for use by those authorized to give the public permission to use material in ways otherwise restricted by copyright and certain other rights. Our licenses are irrevocable. Licensors should read and understand the terms and conditions of the license they choose before applying it. Licensors should also secure all rights necessary before applying our licenses so that the public can reuse the material as expected. Licensors should clearly mark any material not subject to the license. This includes other CC-licensed material, or material used under an exception or limitation to copyright. More considerations for licensors:

wiki.creativecommons.org/Considerations_for_licensors

Considerations for the public: By using one of our public licenses, a licensor grants the public permission to use the licensed material under specified terms and conditions. If the licensor's permission is not necessary for any reason--for example, because of any applicable exception or limitation to copyright--then that use is not regulated by the license. Our licenses grant only permissions under copyright and certain other rights that a licensor has authority to grant. Use of the licensed material may still be restricted for other reasons, including because others have copyright or other rights in the material. A licensor may make special requests, such as asking that all changes be marked or described. Although not required by our licenses, you are encouraged to respect those requests where reasonable. More considerations for the public:

wiki.creativecommons.org/Considerations_for_licensees

=====

Creative Commons Attribution 4.0 International Public License

By exercising the Licensed Rights (defined below), You accept and agree to be bound by the terms and conditions of this Creative Commons Attribution 4.0 International Public License ("Public License"). To the extent this Public License may be interpreted as a contract, You are granted the Licensed Rights in consideration of Your acceptance of these terms and conditions, and the Licensor grants You such rights in consideration of benefits the Licensor receives from making the Licensed Material available under these terms and conditions.

Section 1 -- Definitions.

- a. Adapted Material means material subject to Copyright and Similar Rights that is derived from or based upon the Licensed Material and in which the Licensed Material is translated, altered, arranged, transformed, or otherwise modified in a manner requiring permission under the Copyright and Similar Rights held by the Licensor. For purposes of this Public License, where the Licensed Material is a musical work, performance, or sound recording, Adapted Material is always produced where the Licensed Material is synched in timed relation with a moving image.
- b. Adapter's License means the license You apply to Your Copyright and Similar Rights in Your contributions to Adapted Material in accordance with the terms and conditions of this Public License.

- c. Copyright and Similar Rights means copyright and/or similar rights closely related to copyright including, without limitation, performance, broadcast, sound recording, and Sui Generis Database Rights, without regard to how the rights are labeled or categorized. For purposes of this Public License, the rights specified in Section 2(b)(1)-(2) are not Copyright and Similar Rights.
- d. Effective Technological Measures means those measures that, in the absence of proper authority, may not be circumvented under laws fulfilling obligations under Article 11 of the WIPO Copyright Treaty adopted on December 20, 1996, and/or similar international agreements.
- e. Exceptions and Limitations means fair use, fair dealing, and/or any other exception or limitation to Copyright and Similar Rights that applies to Your use of the Licensed Material.
- f. Licensed Material means the artistic or literary work, database, or other material to which the Licensor applied this Public License.
- g. Licensed Rights means the rights granted to You subject to the terms and conditions of this Public License, which are limited to all Copyright and Similar Rights that apply to Your use of the Licensed Material and that the Licensor has authority to license.
- h. Licensor means the individual(s) or entity(ies) granting rights under this Public License.
- i. Share means to provide material to the public by any means or process that requires permission under the Licensed Rights, such as reproduction, public display, public performance, distribution, dissemination, communication, or importation, and to make material available to the public including in ways that members of the public may access the material from a place and at a time individually chosen by them.
- j. Sui Generis Database Rights means rights other than copyright resulting from Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, as amended and/or succeeded, as well as other essentially equivalent rights anywhere in the world.
- k. You means the individual or entity exercising the Licensed Rights under this Public License. Your has a corresponding meaning.

Section 2 -- Scope.

a. License grant.

1. Subject to the terms and conditions of this Public License, the Licensor hereby grants You a worldwide, royalty-free, non-sublicensable, non-exclusive, irrevocable license to exercise the Licensed Rights in the Licensed Material to:
 - a. reproduce and Share the Licensed Material, in whole or in part; and
 - b. produce, reproduce, and Share Adapted Material.
2. Exceptions and Limitations. For the avoidance of doubt, where Exceptions and Limitations apply to Your use, this Public License does not apply, and You do not need to comply with its terms and conditions.
3. Term. The term of this Public License is specified in Section 6(a).
4. Media and formats; technical modifications allowed. The Licensor authorizes You to exercise the Licensed Rights in all media and formats whether now known or hereafter created, and to make technical modifications necessary to do so. The Licensor waives and/or agrees not to assert any right or authority to forbid You from making technical modifications necessary to exercise the Licensed Rights, including technical modifications necessary to circumvent Effective Technological Measures. For purposes of this Public License, simply making modifications authorized by this Section 2(a) (4) never produces Adapted Material.
5. Downstream recipients.
 - a. Offer from the Licensor -- Licensed Material. Every recipient of the Licensed Material automatically receives an offer from the Licensor to exercise the Licensed Rights under the terms and conditions of this Public License.
 - b. No downstream restrictions. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, the Licensed Material if doing so restricts exercise of the Licensed Rights by any recipient of the Licensed Material.

6. No endorsement. Nothing in this Public License constitutes or may be construed as permission to assert or imply that You are, or that Your use of the Licensed Material is, connected with, or sponsored, endorsed, or granted official status by, the Licensor or others designated to receive attribution as provided in Section 3(a)(1)(A)(i).

b. Other rights.

1. Moral rights, such as the right of integrity, are not licensed under this Public License, nor are publicity, privacy, and/or other similar personality rights; however, to the extent possible, the Licensor waives and/or agrees not to assert any such rights held by the Licensor to the limited extent necessary to allow You to exercise the Licensed Rights, but not otherwise.

2. Patent and trademark rights are not licensed under this Public License.

3. To the extent possible, the Licensor waives any right to collect royalties from You for the exercise of the Licensed Rights, whether directly or through a collecting society under any voluntary or waivable statutory or compulsory licensing scheme. In all other cases the Licensor expressly reserves any right to collect such royalties.

Section 3 -- License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the following conditions.

a. Attribution.

1. If You Share the Licensed Material (including in modified form), You must:

a. retain the following if it is supplied by the Licensor with the Licensed Material:

i. identification of the creator(s) of the Licensed Material and any others designated to receive attribution, in any reasonable manner requested by the Licensor (including by pseudonym if designated);

ii. a copyright notice;

- iii. a notice that refers to this Public License;
 - iv. a notice that refers to the disclaimer of warranties;
 - v. a URI or hyperlink to the Licensed Material to the extent reasonably practicable;
- b. indicate if You modified the Licensed Material and retain an indication of any previous modifications; and
 - c. indicate the Licensed Material is licensed under this Public License, and include the text of, or the URI or hyperlink to, this Public License.
2. You may satisfy the conditions in Section 3(a)(1) in any reasonable manner based on the medium, means, and context in which You Share the Licensed Material. For example, it may be reasonable to satisfy the conditions by providing a URI or hyperlink to a resource that includes the required information.
3. If requested by the Licensor, You must remove any of the information required by Section 3(a)(1)(A) to the extent reasonably practicable.
4. If You Share Adapted Material You produce, the Adapter's License You apply must not prevent recipients of the Adapted Material from complying with this Public License.

Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that apply to Your use of the Licensed Material:

- a. for the avoidance of doubt, Section 2(a)(1) grants You the right to extract, reuse, reproduce, and Share all or a substantial portion of the contents of the database;
- b. if You include all or a substantial portion of the database contents in a database in which You have Sui Generis Database Rights, then the database in which You have Sui Generis Database Rights (but not its individual contents) is Adapted Material; and
- c. You must comply with the conditions in Section 3(a) if You Share all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not

replace Your obligations under this Public License where the Licensed Rights include other Copyright and Similar Rights.

Section 5 -- Disclaimer of Warranties and Limitation of Liability.

- a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.
- b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES, COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.
- c. The disclaimer of warranties and limitation of liability provided above shall be interpreted in a manner that, to the extent possible, most closely approximates an absolute disclaimer and waiver of all liability.

Section 6 -- Term and Termination.

- a. This Public License applies for the term of the Copyright and Similar Rights licensed here. However, if You fail to comply with this Public License, then Your rights under this Public License terminate automatically.
- b. Where Your right to use the Licensed Material has terminated under Section 6(a), it reinstates:
 1. automatically as of the date the violation is cured, provided it is cured within 30 days of Your discovery of the violation; or
 2. upon express reinstatement by the Licensor.

For the avoidance of doubt, this Section 6(b) does not affect any

right the Licensor may have to seek remedies for Your violations of this Public License.

c. For the avoidance of doubt, the Licensor may also offer the Licensed Material under separate terms or conditions or stop distributing the Licensed Material at any time; however, doing so will not terminate this Public License.

d. Sections 1, 5, 6, 7, and 8 survive termination of this Public License.

Section 7 -- Other Terms and Conditions.

a. The Licensor shall not be bound by any additional or different terms or conditions communicated by You unless expressly agreed.

b. Any arrangements, understandings, or agreements regarding the Licensed Material not stated herein are separate from and independent of the terms and conditions of this Public License.

Section 8 -- Interpretation.

a. For the avoidance of doubt, this Public License does not, and shall not be interpreted to, reduce, limit, restrict, or impose conditions on any use of the Licensed Material that could lawfully be made without permission under this Public License.

b. To the extent possible, if any provision of this Public License is deemed unenforceable, it shall be automatically reformed to the minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.

c. No term or condition of this Public License will be waived and no failure to comply consented to unless expressly agreed to by the Licensor.

d. Nothing in this Public License constitutes or may be interpreted as a limitation upon, or waiver of, any privileges and immunities that apply to the Licensor or You, including from the legal processes of any jurisdiction or authority.

=====

Creative Commons is not a party to its public licenses.

Notwithstanding, Creative Commons may elect to apply one of its public licenses to material it publishes and in those instances will be

considered the "Licensor." Except for the limited purpose of indicating that material is shared under a Creative Commons public license or as otherwise permitted by the Creative Commons policies published at creativecommons.org/policies, Creative Commons does not authorize the use of the trademark "Creative Commons" or any other trademark or logo of Creative Commons without its prior written consent including, without limitation, in connection with any unauthorized modifications to any of its public licenses or any other arrangements, understandings, or agreements concerning use of licensed material. For the avoidance of doubt, this paragraph does not form part of the public licenses.

Creative Commons may be contacted at creativecommons.org.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along  
with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

This contains code that is from LevelDB, and that code is under the following license:

Copyright (c) 2011 The LevelDB Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.40 dropwizard-database-support 2.0.28

1.40.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.41 io-grpc-grpc-protobuf 1.39.0

1.41.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017 The gRPC Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/package-info.java

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/StatusProto.java

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The gRPC Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/ProtoUtils.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016 The gRPC Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1183891218_1655096184.4932175/0/grpc-protobuf-1-39-0-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java

1.42 micronaut-kubernetes 3.4.0

1.42.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/PodNameResolver.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/NamespaceResolver.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/Apis.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/OkHttpClientLogging.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApisAutomaticFeatureMetadata.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApiClientConfiguration.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/DefaultNamespaceResolver.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApiClientFactory.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/DiscoveryFactory.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/graalvm/KubernetesClientFeature.java

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ModelMapper.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/DefaultPodNameResolver.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2022 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/DiscoveryCache.java

1.43 netty/transport/classes/epoll 4.1.73.Final

1.43.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.73.Final

Built-By: root

Bnd-LastModified: 1641972717827

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;

version="[1,2]";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2]";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version: 4.1.73.Final
Bundle-NativeCode: META-INF/native/libnetty_transport_native_epoll_aarch_64.so; osname=Linux; processor=aarch_64,*
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

* /opt/cola/permits/1290493747_1648156873.67/0/netty-transport-native-epoll-4-1-73-final-linux-aarch-64-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

~ Copyright 2014 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:

~

~ <https://www.apache.org/licenses/LICENSE>

2.0

~

~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.

Found in path(s):

* /opt/cola/permits/1290493747_1648156873.67/0/netty-transport-native-epoll-4-1-73-final-linux-aarch-64-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

1.44 dropwizard-servlet-support 2.0.28

1.44.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.45 resilience4j 1.7.1

1.45.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.46 jetbrains-kotlin-kotlin-stdlib-jdk8 1.6.10

1.46.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.47 micronaut-r2dbc 2.1.0

1.47.1 Available under license :

mcr.microsoft.com/mssql/server:2017-CU12

Apache License

Version 2.0, January 2004

<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

1.48 jetbrains-kotlin-kotlin-stdlib-jdk7 1.6.10

1.48.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.49 javassist 3.28.0

1.49.1 Available under license :

Found license 'GNU Lesser General Public License' in '* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. * The contents of this file are subject to the Mozilla Public License Version * 1.1 (the "License"); you may not use this file except in compliance with * the License. Alternatively, the contents of this file may be used under * the terms of the GNU Lesser General Public License Version 2.1 or later, * or the Apache License Version 2.0. * Software distributed under the License is distributed on an "AS IS" basis,'
Found license 'GNU Lesser General Public License' in '* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. * The contents of this file are subject to the Mozilla Public License Version * 1.1 (the "License"); you may not use this file except in compliance with * the License. Alternatively, the contents of this file may be used under * the terms of the GNU Lesser General Public License Version 2.1 or later, * or the Apache License Version 2.0. * Software distributed under the License is distributed on an "AS IS" basis, + " All Rights Reserved.");'

1.50 lz4-and-xxhash 1.7.1

1.50.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.51 feign-slf4j 8.18.0

1.51.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2013 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1274703681_1645234024.72/0/feign-slf4j-8-18-0-sources-jar/feign/slf4j/Slf4jLogger.java

1.52 jackson-datatype-jsr310 2.13.3

1.52.1 Available under license :

This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.53 fabric8-::-kubernetes-model-::-batch

4.10.3

1.53.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.54 disruptor-framework 3.3.6

1.54.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.55 snappy-java 1.1.8.1

1.55.1 Available under license :

This product includes software developed by Google
Snappy: <http://code.google.com/p/snappy/> (New BSD License)

This product includes software developed by Apache
PureJavaCrc32C from apache-hadoop-common <http://hadoop.apache.org/>
(Apache 2.0 license)

This library contained statically linked libstdc++. This inclusion is allowed by "GCC Runtime Library Exception"
<http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html>

== Contributors ==

- * Tatu Saloranta
- * Providing benchmark suite
- * Alec Wysoker
- * Performance and memory usage improvement

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.56 apache-zookeeper-jute 3.8.0

1.56.1 Available under license :

This program and the accompanying materials are made available under the terms of the Eclipse Public License 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>, or the Apache Software License 2.0 which is available at <https://www.apache.org/licenses/LICENSE-2.0>.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
 - i) changes to the Program, and
 - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
 - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and

- consequential damages, such as lost profits;
- iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program. Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must:

- a) promptly notify the Commercial Contributor in writing of such claim, and
- b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other

Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement

and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2002, 2004, Christopher Clark
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the original author; nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Net::ZooKeeper - Perl extension for Apache ZooKeeper
Copyright 2009 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2012 Coda Hale and Yammer, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This contrib module includes software developed under the COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

This contrib depends on binary only jar libraries developed at:

<https://jersey.dev.java.net/>

<https://grizzly.dev.java.net/>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This distribution bundles javacc, which is available under the
3-clause BSD License. For details, see a copy of the license in
lib/javacc.LICENSE.txt

This distribution bundles jline 2.14.6, which is available under the
2-clause BSD License. For details, see a copy of the license in
lib/jline-2.14.6.LICENSE.txt

This distribution bundles SLF4J 1.7.30, which is available under the MIT
License. For details, see a copy of the license in
lib/slf4j-1.7.30.LICENSE.txt
Apache ZooKeeper
Copyright 2009-2011 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

include/winstdint.h is included only for Windows Client support, as follows:

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
// 1. Redistributions of source code must retain the above copyright notice,
//    this list of conditions and the following disclaimer.
//
// 2. Redistributions in binary form must reproduce the above copyright
```



```
// notice, this list of conditions and the following disclaimer in the
// documentation and/or other materials provided with the distribution.
//
// 3. The name of the author may be used to endorse or promote products
// derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//
//////////////////////////////////////////////////////////////////
```

src/java/com/nitido/utils/toaster/Toaster.java:

This java file is copyright by Daniele Piras ("danielepiras80", no email known) released under the Apache Software License 2.0

It has been downloaded in december 2009 from the CVS web interface of the sourceforge project <http://sourceforge.net/projects/jtoaster/> . The web interface to CVS is not available anymore on sourceforge.

The icons in src/main/resources/icons are taken from the Tango project downloaded from <http://tango.freedesktop.org/releases> on 2011-09-06.

The Tango project is public domain.

Distribution packagers should not include the icons in the package but rather depend on tango-icon-theme (Debian package name). ZooInspector will then try to get the icons from /usr/share/icons/Tango rather than from its jar file.

Apache ZooKeeper

Copyright 2009-2022 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

This product includes software components originally developed for Airlift (<https://github.com/airlift/airlift>), licensed under the Apache 2.0 license. The licensing terms for Airlift code can be found at:

<https://github.com/airlift/airlift/blob/master/LICENSE>

This project also includes some files with the following licenses.

These BSD licensed files:

./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable.c

./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable.h
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_itr.c
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_itr.h
./zookeeper-client/zookeeper-client-c/src/hashtable/hashtable_private.h
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/yui-min.js
./zookeeper-docs/src/main/resources/markdown/skin/prototype.js

These MIT licensed files:

./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/date.format.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/g.bar.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/g.dot.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/g.line.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/g.pie.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/g.raphael.js
./zookeeper-contrib/zookeeper-contrib-
loggraph/src/main/resources/webapp/org/apache/zookeeper/graph/resources/raphael.js

This Apache 2.0 licensed file:

./zookeeper-contrib/zookeeper-contrib-zooinspector/src/main/java/com/nitido/utils/toaster/Toaster.java
Apache ZooKeeper
Copyright 2009-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes software components originally
developed for Airlift (<https://github.com/airlift/airlift>),
licensed under the Apache 2.0 license. The licensing terms
for Airlift code can be found at:
<https://github.com/airlift/airlift/blob/master/LICENSE>

This product includes software developed by
The Netty Project (<http://netty.io/>)
Copyright 2011 The Netty Project

The Netty NOTICE file contains the following items:
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:
* license/LICENSE.jsr166y.txt (Public Domain)

* HOMEPAGE:

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss-cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

* LICENSE:

* license/LICENSE.base64.txt (Public Domain)

* HOMEPAGE:

* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified version of 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE:

* license/LICENSE.jzlib.txt (BSD Style License)

* HOMEPAGE:

* <http://www.jcraft.com/jzlib/>

This product contains a modified version of 'Webbit', a Java event based WebSocket and HTTP server:

* LICENSE:

* license/LICENSE.webbit.txt (BSD License)

* HOMEPAGE:

* <https://github.com/joewalnes/webbit>

This product optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

* LICENSE:

* license/LICENSE.protobuf.txt (New BSD License)

* HOMEPAGE:

* <http://code.google.com/p/protobuf/>

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the equivalent functionality. It can be obtained at:

* LICENSE:

* license/LICENSE.bouncycastle.txt (MIT License)

* HOMEPAGE:

* <http://www.bouncycastle.org/>

This product optionally depends on 'SLF4J', a simple logging facade for Java, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.slf4j.txt (MIT License)
- * HOMEPAGE:
 - * <http://www.slf4j.org/>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.commons-logging.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Logback', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.logback.txt (Eclipse Public License 1.0)
- * HOMEPAGE:
 - * <https://logback.qos.ch/>

This product optionally depends on 'JBoss Logging', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.jboss-logging.txt (GNU LGPL 2.1)
- * HOMEPAGE:
 - * <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.felix.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <http://felix.apache.org/>

The bundled library Metrics Core NOTICE file reports the following items

Metrics

Copyright 2010-2013 Coda Hale and Yammer, Inc.

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project (ThreadLocalRandom, Striped64, LongAdder), which was released with the following comments:

Written by Doug Lea with assistance from members of JCP JSR-166

Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

The Nappy Java NOTICE file reports the following items:

This product includes software developed by Google
Snappy: <http://code.google.com/p/snappy/> (New BSD License)

This product includes software developed by Apache
PureJavaCrc32C from apache-hadoop-common <http://hadoop.apache.org/>
(Apache 2.0 license)

This library contained statically linked libstdc++. This inclusion is allowed by "GCC Runtime Library Exception"
<http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html>

== Contributors ==

- * Tatu Saloranta
 - * Providing benchmark suite
- * Alec Wysoker
 - * Performance and memory usage improvement

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```
=====  
=====  
===      The following part contains the dual OpenSSL and SSLeay license      ===  
===      for OpenSSL versions 1.1.1, 1.1.0, 1.0.2 and all prior releases      ===  
===      (see https://www.openssl.org/source/license.html)      ===  
=====  
=====
```

LICENSE ISSUES

=====

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit.

See below for the actual license texts.

OpenSSL License

```
/* =====  
* Copyright (c) 1998-2019 The OpenSSL Project. All rights reserved.  
*  
* Redistribution and use in source and binary forms, with or without  
* modification, are permitted provided that the following conditions  
* are met:  
*  
* 1. Redistributions of source code must retain the above copyright  
* notice, this list of conditions and the following disclaimer.  
*  
* 2. Redistributions in binary form must reproduce the above copyright  
* notice, this list of conditions and the following disclaimer in  
* the documentation and/or other materials provided with the  
* distribution.  
*  
* 3. All advertising materials mentioning features or use of this  
* software must display the following acknowledgment:  
* "This product includes software developed by the OpenSSL Project  
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)"  
*  
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to  
* endorse or promote products derived from this software without  
* prior written permission. For written permission, please contact  
* openssl-core@openssl.org.  
*  
* 5. Products derived from this software may not be called "OpenSSL"  
* nor may "OpenSSL" appear in their names without prior written  
* permission of the OpenSSL Project.  
*  
* 6. Redistributions of any form whatsoever must retain the following  
* acknowledgment:  
* "This product includes software developed by the OpenSSL Project  
* for use in the OpenSSL Toolkit (http://www.openssl.org/)"  
*  
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY  
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR  
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
```

* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.

* =====

*

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).

*

*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)

* All rights reserved.

*

* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).

* The implementation was written so as to conform with Netscapes SSL.

*

* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).

*

* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.

* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.

* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.

*

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:

* 1. Redistributions of source code must retain the copyright
* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:

* "This product includes cryptographic software written by
* Eric Young (eay@cryptsoft.com)"

* The word 'cryptographic' can be left out if the rouines from the library

```

* being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
* the apps directory (application code) you must include an acknowledgement:
* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

```

```

=====
=====
=== The following part contains the license for the Cyrus SASL 2.x library ===
=== used for optional SASL support ===
=====
=====

```

```

/* CMU libsasl
* Tim Martin
* Rob Earhart
* Rob Siemborski
*/
/*
* Copyright (c) 1998-2003 Carnegie Mellon University. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the

```

* distribution.

*

* 3. The name "Carnegie Mellon University" must not be used to
* endorse or promote products derived from this software without
* prior written permission. For permission or any other legal
* details, please contact

* Office of Technology Transfer
* Carnegie Mellon University
* 5000 Forbes Avenue
* Pittsburgh, PA 15213-3890
* (412) 268-4387, fax: (412) 268-7395
* tech-transfer@andrew.cmu.edu

*

* 4. Redistributions of any form whatsoever must retain the following
* acknowledgment:

* "This product includes software developed by Computing Services
* at Carnegie Mellon University (<http://www.cmu.edu/computing/>)."

*

* CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
* THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
* AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE
* FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
* AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
* OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

*/

Copyright (c) 2002-2012, the original author or authors.

All rights reserved.

<http://www.opensource.org/licenses/bsd-license.php>

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2004-2017 QOS.ch

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.57 dropwizard-lifecycle-support 2.0.28

1.57.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.58 javassist rel_3_25_0_ga

1.58.1 Available under license :

Found license 'GNU Lesser General Public License' in 'This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should have received a copy of the GNU Lesser General Public'

Found license 'GNU Lesser General Public License' in '<CENTER>MOZILLA PUBLIC LICENSE
Version portions thereof) with or without Modifications, and/or as part of a Larger future version of this License released under Section 6.1, and You must ("Netscape") may publish revised and/or new versions of the License from published under a particular version of the License, You may always continue Covered Code under the terms of any subsequent version of the License and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public admission of liability.13. MULTIPLE-LICENSED CODE. "Multiple-Licensed". "Multiple-Licensed" means that the Initial <P>
EXHIBIT A -Mozilla Public License. The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <P>Software distributed under the License is distributed on an "AS IS" basis, Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. terms of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), or the Apache License Version 2.0 (the "AL"), use your version of this software under the terms of the MPL, indicate'

Found license 'GNU Lesser General Public License' in '<h3>Copyright (C) 1999-2019 by Shigeru Chiba, All rights reserved.</h3>
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. the Mozilla Public License Version 1.1 (the "License");
 you may not use this software except in compliance with the License. You may obtain a copy of the License at <p>Software distributed under the License is distributed on an "AS IS" Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. terms of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"), or the Apache License Version 2.0 (the "AL"), use your version of this software under the terms of the MPL, indicate'

Found license 'GNU Lesser General Public License' in 'Copyright (C) 1999-2019 by Shigeru Chiba, All rights reserved. This software is distributed under the Mozilla Public License Version 1.1, the GNU Lesser General Public

License Version 2.1 or later, or the Apache License Version 2.0.'

Found license 'GNU Lesser General Public License' in 'Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. Alternatively, the contents of this file may be used under the terms of the GNU Lesser General Public License Version 2.1 or later, or the Apache License Version 2.0. Software distributed under the License is distributed on an "AS IS" basis,'

Found license 'GNU Lesser General Public License' in 'Copyright (C) 2004 Bill Burke. All Rights Reserved. The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. Alternatively, the contents of this file may be used under the terms of the GNU Lesser General Public License Version 2.1 or later, or the Apache License Version 2.0. Software distributed under the License is distributed on an "AS IS" basis,'

Found license 'GNU Lesser General Public License' in 'Copyright (C) 1999- Shigeru Chiba. All Rights Reserved. The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. Alternatively, the contents of this file may be used under the terms of the GNU Lesser General Public License Version 2.1 or later, or the Apache License Version 2.0. Software distributed under the License is distributed on an "AS IS" basis, + " All Rights Reserved.");'

1.59 scala-collection-compat 2.3.0

1.59.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Scala (https://www.scala-lang.org)  
*  
* Copyright EPFL and Lightbend, Inc.  
*  
* Licensed under Apache License 2.0  
* (http://www.apache.org/licenses/LICENSE-2.0).  
*  
* See the NOTICE file distributed with this work for  
* additional information regarding copyright ownership.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1183891771_1658981142.4749572/0/scala-collection-compat-2-13-2-3-0-sources-jar/scala/collection/compat/package.scala  
* /opt/cola/permits/1183891771_1658981142.4749572/0/scala-collection-compat-2-13-2-3-0-sources-jar/scala/collection/compat/immutable/package.scala
```

1.60 elasticsearch-kubernetes-cloud-plugin

4.10.3

1.60.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.61 swagger-jaxrs2 2.1.6

1.61.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: io.swagger.v3.jaxrs2

Bnd-LastModified: 1607101154572

Build-Jdk: 1.8.0_275

Built-By: runner

Bundle-Description: swagger-jaxrs2

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-jaxrs2

Bundle-SymbolicName: io.swagger.core.v3.swagger-jaxrs2

Bundle-Version: 2.1.6

Created-By: Apache Maven Bundle Plugin

Export-Package: io.swagger.v3.jaxrs2;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind.introspect,io.swagger.v3.jaxrs2.ext,io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.parameters,io.swagger.v3.oas.annotations.responses,io.swagger.v3.oas.annotations.security,io.swagger.v3.oas.integration.api,io.swagger.v3.oas.models,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.parameters,io.swagger.v3.oas.models.responses,io.swagger.v3.oas.models.security,io.swagger.v3.oas.models.servers,javax.ws.rs,javax.ws.rs.core,javax.ws.rs.ext";version="2.1.6",io.swagger.v3.jaxrs2.ext;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,io.swagger.v3.jaxrs2,io.swagger.v3.oas.models,javax.ws.rs";version="2.1.6",io.swagger.v3.jaxrs2.integration;uses:="io.swagger.v3.jaxrs2.integration.api,io.swagger.v3.oas.integration,io.swagger.v3.oas.integration.api,javax.servlet,javax.servlet.http,javax.ws.rs.core,org.apache.commons.lang3.tuple,org.slf4j";version="2.1.6",io.swagger.v3.jaxrs2.integration.api;uses:="io.swagger.v3.oas.integration.api,javax.servlet,javax.ws.rs.core";version="2.1.6",io.swagger.v3.jaxrs2.integration.resources;uses:="io.swagger.v3.oas.annotations,io.swagger.v3.oas.integration.api,javax.servlet,javax.ws.rs,javax.ws.rs.core";version="2.1.6",io.swagger

```
er.v3.jaxrs2.util;uses:="com.fasterxml.jackson.annotation,io.swagger.
v3.jaxrs2.ext,io.swagger.v3.oas.integration.api,io.swagger.v3.oas.mod
els,io.swagger.v3.oas.models.parameters,javax.servlet.http,javax.ws.r
s,javax.ws.rs.core";version="2.1.6"
implementation-version: 2.1.6
Import-Package: javax.ws.rs;version="2.0",javax.ws.rs.core;version="2.
0",javax.ws.rs.ext;version="2.0",com.fasterxml.jackson.annotation;ver
sion="[2.11,3)",com.fasterxml.jackson.core;version="[2.11,3)",com.fas
terxml.jackson.core.util;version="[2.11,3)",com.fasterxml.jackson.dat
abind;version="[2.11,3)",com.fasterxml.jackson.databind.introspect;ve
rsion="[2.11,3)",com.fasterxml.jackson.databind.type;version="[2.11,3
)",io.github.classgraph;version="[4.8,5)",io.swagger.v3.core.converte
r;version="[2.1,3)",io.swagger.v3.core.filter;version="[2.1,3)",io.sw
agger.v3.core.util;version="[2.1,3)",io.swagger.v3.jaxrs2,io.swagger.
v3.jaxrs2.ext,io.swagger.v3.jaxrs2.integration,io.swagger.v3.jaxrs2.i
ntegration.api,io.swagger.v3.jaxrs2.util,io.swagger.v3.oas.annotatio
ns;version="[2.1,3)",io.swagger.v3.oas.annotations.callbacks;version="
[2.1,3)",io.swagger.v3.oas.annotations.enums;version="[2.1,3)",io.swa
gger.v3.oas.annotations.extensions;version="[2.1,3)",io.swagger.v3.oa
s.annotations.headers;version="[2.1,3)",io.swagger.v3.oas.annotations
.info;version="[2.1,3)",io.swagger.v3.oas.annotations.links;version="
[2.1,3)",io.swagger.v3.oas.annotations.media;version="[2.1,3)",io.swa
gger.v3.oas.annotations.parameters;version="[2.1,3)",io.swagger.v3.oa
s.annotations.responses;version="[2.1,3)",io.swagger.v3.oas.annotatio
ns.security;version="[2.1,3)",io.swagger.v3.oas.annotations.servers;v
ersion="[2.1,3)",io.swagger.v3.oas.annotations.tags;version="[2.1,3)"
,io.swagger.v3.oas.integration;version="[2.1,3)",io.swagger.v3.oas.in
tegration.api;version="[2.1,3)",io.swagger.v3.oas.models;version="[2.
1,3)",io.swagger.v3.oas.models.callbacks;version="[2.1,3)",io.swagger
.v3.oas.models.info;version="[2.1,3)",io.swagger.v3.oas.models.media;
version="[2.1,3)",io.swagger.v3.oas.models.parameters;version="[2.1,3
)",io.swagger.v3.oas.models.responses;version="[2.1,3)",io.swagger.v3
.oas.models.security;version="[2.1,3)",io.swagger.v3.oas.models.serve
rs;version="[2.1,3)",io.swagger.v3.oas.models.tags;version="[2.1,3)",
javax.servlet;version="[4.0,5)",javax.servlet.http;version="[4.0,5)",
org.apache.commons.lang3;version="[3.7,4)",org.apache.commons.lang3.t
uple;version="[3.7,4)",org.slf4j;version="[1.7,2)"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs
2
```

Found in path(s):

* /opt/cola/permits/1148119609_1654840282.6346464/0/swagger-jaxrs2-2-1-6-jar/META-INF/MANIFEST.MF

1.62 fabric8-::-kubernetes-model-::-discovery

4.10.3

1.62.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.63 micronaut-sql-libraries 4.2.2

1.63.1 Available under license :

No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/META-INF/native-image/io.micronaut.sql/micronaut-jdbc/native-image.properties

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/JdbcDatabaseManager.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/BasicJdbcConfiguration.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadataProvider.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/SpringDataSourceResolver.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/package-info.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/DataSourceResolver.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/HibernatePresenceCondition.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/AbstractDataSourcePoolMetadata.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/DataSourceTransactionManagerFactory.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/package-info.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/CalculatedSettings.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/package-info.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadata.java
- * /opt/cola/permits/1331473530_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/nativeimage/JdbcFeature.java

1.64 checker-qual 3.15.0

1.64.1 Available under license :

Checker Framework qualifiers

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.65 okhttp 3.12.12

1.65.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/BridgeInterceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/ConnectInterceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache/CacheInterceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Connection.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Headers.java
```

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/CertificateChainCleaner.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/FormBody.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/CipherSuite.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/http2/PushObserver.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/ws/WebSocketReader.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/RealCall.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/Internal.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/Version.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/TlsVersion.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Call.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/ws/WebSocketProtocol.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ResponseBody.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/ws/WebSocketWriter.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/http/RealResponseBody.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/MultipartBody.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Protocol.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/RequestBody.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/CertificatePinner.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/platform/ConscryptPlatform.java

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache/CacheRequest.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Challenge.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Callback.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Interceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/Header.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/HttpMethod.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ConnectionSpec.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Credentials.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/BasicTrustRootIndex.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/CallServerInterceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/ConnectionShutdownException.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/platform/Jdk9Platform.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/WebSocketListener.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/http/RealInterceptorChain.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/platform/AndroidPlatform.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/ws/RealWebSocket.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache2/FileOperator.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/StreamResetException.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/WebSocket.java
No license file was found, but licenses were detected in source scan.

```
/*  
 * Copyright (C) 2015 Square, Inc.  
 *  
 * Licensed under the Apache License, Version 2.0 (the "License");  
 * you may not use this file except in compliance with the License.  
 * You may obtain a copy of the License at  
 *  
 * http://www.apache.org/licenses/LICENSE-2.0  
 *  
 * Unless required by applicable law or agreed to in writing, software  
 * distributed under the License is distributed on an "AS IS" BASIS,  
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
 */
```

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Authenticator.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/StreamAllocation.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Cookie.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/io/FileSystem.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/HttpUrl.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/RouteException.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/cache/FaultHidingSink.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013 Twitter, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/http2/Huffman.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2012 Square, Inc.

* Copyright (C) 2012 The Android Open Source Project

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-

jar/okhttp3/internal/platform/Platform.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 The Android Open Source Project

*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/Http2Writer.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache/DiskLruCache.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/Http2Reader.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/Http2Stream.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/HttpDate.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/Http2Connection.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Android Open Source Project
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Cache.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2013 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/cache/InternalCache.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http/RequestLine.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/connection/RouteDatabase.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http2/ErrorCode.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http2/Hpack.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Response.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/MediaType.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Dispatcher.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Request.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Route.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/NamedRunnable.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Handshake.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http/StatusLine.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http2/Http2.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/cache/CacheStrategy.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2012 Square, Inc.
 *
```

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Dns.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/connection/RouteSelector.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/OkHttpClient.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/http2/Settings.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2020 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/platform/Android10Platform.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2017 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/EventListener.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/proxy/NullProxySelector.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/annotations/EverythingIsNonNull.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Android Open Source Project
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>

- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/Http2Codec.java
- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Address.java
- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/Util.java
- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/HttpHeaders.java
- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/HttpCodec.java
- * /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/Http1Codec.java

1.66 spock-framework---bill-of-materials 2.0-groovy-3.0

1.66.1 Available under license :

```

=====
== NOTICE file corresponding to the section 4 d of           ==
== the Apache License, Version 2.0,                          ==
== in this case for the Spock distribution.                    ==
=====

```

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

It includes the following other software:

gentyref (<http://code.google.com/p/gentyref/>)

For licenses see the LICENSE file.

If any software distributed with Spock does not have an Apache 2 License, its license is explicitly listed in the LICENSE file.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.67 config 5.5.5

1.67.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--~
~ Copyright 2015 Confluent Inc.
~
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1341639818_1654816582.0388222/0/common-config-5-5-5-jar/META-INF/maven/io.confluent/common-config/pom.xml
```

1.68 fabric8-::-kubernetes-model-::-admission-registration,-authentication-and-authorization 4.10.3

1.68.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

1.69 lettuce 6.1.6.RELEASE

1.69.1 Available under license :

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Lettuce Java Redis Client 6.1.6.RELEASE
Copyright (c) 2011-2020 Mark Paluch

This product is licensed to you under the Apache License, Version 2.0 (the "License"). You may not use this product except in compliance with the License.

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the license file.

1.70 apiguardian-apiguardian-api 1.1.0

1.70.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.71 mockito 2.27.0

1.71.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

====

Copyright (c) 2016 Mockito contributors

This program is made available under the terms of the MIT License.

====

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.72 micrometer-bom 1.8.3

1.72.1 Available under license :

This product includes 'ANTLR', which is released under the following license(s):

BSD-3 <<http://opensource.org/licenses/BSD-3-Clause>>

This product includes 'ASM', which is released under the following license(s):

ASM (BSD-3) <<http://asm.ow2.org/license.html>>

This product includes 'Apache Cassandra', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Apache Commons CLI', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Apache Commons Codec', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Apache Commons Logging', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'GSON', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Guava', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'HttpClient', which is released under the following license(s):

Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'JAXB', which is released under the following license(s):
CDDL-1.0 <<https://opensource.org/licenses/CDDL-1.0>>

This product includes 'JRegex', which is released under the following license(s):
BSD-3 <<http://opensource.org/licenses/BSD-3-Clause>>

This product includes 'JSON.simple', which is released under the following license(s):
Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Jackson', which is released under the following license(s):
Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'Javassist', which is released under the following license(s):
Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

This product includes 'LogBack', which is released under the following license(s):
Eclipse Public License 1.0 <<http://www.eclipse.org/legal/epl-v10.html>>

This product includes 'Reflections', which is released under the following license(s):
Do What The Fuck You Want To Public License (WTFPL) <<http://www.wtfpl.net>>

This product includes 'SLF4J', which is released under the following license(s):
The MIT License (MIT) <<http://opensource.org/licenses/MIT>>

This product includes 'SnakeYAML', which is released under the following license(s):
Apache License 2.0 <<http://www.apache.org/licenses/LICENSE-2.0>>

All other components of this product are: Copyright (c) 2010-2017 New Relic, Inc. All rights reserved.

Certain inventions disclosed in this file may be claimed within patents owned or patent applications filed by New Relic, Inc. or third parties. Subject to the terms of this notice, New Relic grants you a nonexclusive, nontransferable license, without the right to sublicense, to (a) install and execute one copy of these files on any number of workstations owned or controlled by you and (b) distribute verbatim copies of these files to third parties. As a condition to the foregoing grant, you must provide this notice along with each copy you distribute and you must not remove, alter, or obscure this notice.

All other use, reproduction, modification, distribution, or other exploitation of these files is strictly prohibited, except as may be set forth in a separate written license agreement between you and New Relic. The terms of any such license agreement will control over this notice. The license stated above will be automatically terminated and revoked if you exceed its scope or violate any of the terms of this notice.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of New Relic, except as required for reasonable and customary use in describing the origin of this file and reproducing the content of this notice. You may not mark or brand this file with any trade name, trademarks, service marks, or product names other than the original brand (if any) provided by New Relic.

Unless otherwise expressly agreed by New Relic in a separate written license agreement, these files are provided AS IS, WITHOUT WARRANTY OF ANY KIND, including without any implied warranties of MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, or NON-INFRINGEMENT. As a condition to your use of these files, you are solely responsible for such use. New Relic will have no liability to you for direct, indirect, consequential, incidental, special, or punitive damages or for lost profits or data.

Micrometer

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product contains a modified portion of 'io.netty.util.internal.logging',

in the Netty/Common library distributed by The Netty Project:

- * Copyright 2013 The Netty Project
- * License: Apache License v2.0
- * Homepage: <https://netty.io>

This product contains a modified portion of 'StringUtils.isBlank()',
in the Commons Lang library distributed by The Apache Software Foundation:

- * Copyright 2001-2019 The Apache Software Foundation
- * License: Apache License v2.0
- * Homepage: <https://commons.apache.org/proper/commons-lang/>

This product contains a modified portion of 'JsonUtf8Writer',
in the Moshi library distributed by Square, Inc:

- * Copyright 2010 Google Inc.
- * License: Apache License v2.0
- * Homepage: <https://github.com/square/moshi>

This product contains a modified portion of the 'org.springframework.lang'
package in the Spring Framework library, distributed by VMware, Inc:

- * Copyright 2002-2019 the original author or authors.
- * License: Apache License v2.0
- * Homepage: <https://spring.io/projects/spring-framework>

All components of this product are: Copyright (c) 2010-2015 New Relic, Inc. All rights reserved.

Certain inventions disclosed in this file may be claimed within patents owned or patent applications filed by New Relic, Inc. or third parties. Subject to the terms of this notice, New Relic grants you a nonexclusive, nontransferable license, without the right to sublicense, to (a) install and execute one copy of these files on any number of workstations owned or controlled by you and (b) distribute verbatim copies of these files to third parties. As a condition to the foregoing grant, you must provide this notice along with each copy you distribute and you must not remove, alter, or obscure this notice.

All other use, reproduction, modification, distribution, or other exploitation of these files is strictly prohibited, except as may be set forth in a separate written license agreement between you and New Relic. The terms of any such license agreement will control over this notice. The license stated above will be automatically terminated and revoked if you exceed its scope or violate any of the terms of this notice.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of New Relic, except as required for reasonable and customary use in describing the origin of this file and reproducing the content of this notice. You may not mark or brand this file with any trade name, trademarks, service marks, or product names other than the original brand (if any) provided by New Relic.

Unless otherwise expressly agreed by New Relic in a separate written license agreement, these files are provided AS IS, WITHOUT WARRANTY OF ANY KIND, including without any implied warranties of MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, or NON-INFRINGEMENT. As a condition to your use of these files, you are solely responsible for such use. New Relic will have no liability to you for direct, indirect, consequential, incidental, special, or punitive damages or for lost profits or data.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.73 guava 30.1.1-jre

1.73.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2015 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/CollectSpliterators.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/graph/package-info.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2019 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Internal.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2017 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingLock.java
```

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Throwables.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Files.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/package-

info.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/EventBus.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Charsets.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Resources.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Predicates.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/HashBiMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Functions.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/package-info.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/FinalizableReference.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/CountingOutputStream.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/eventbus/DeadEvent.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ByteStreams.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Defaults.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Objects.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Flushables.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Interners.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Suppliers.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/package-info.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Function.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Predicate.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the

* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either
* express or implied. See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Count.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/GeneralRange.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2020 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

/**

* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/CharMatcher.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/PercentEscaper.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Doubles.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Joiner.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Booleans.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Converter.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Longs.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Floats.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/Ints.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FluentIterable.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/Shorts.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java

No license file was found, but licenses were detected in source scan.

/*

```
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby disclaims copyright to this source code.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Hashing.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
```

jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2014 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software distributed under the License  
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
express  
* or implied. See the License for the specific language governing permissions and limitations under  
* the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/Quantiles.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2011 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
/*
 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
 * and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */
```

Found in path(s):

```
*/opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Striped.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2020 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
*/opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
```

jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Java8Usage.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2012 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software distributed under the License  
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
express  
* or implied. See the License for the specific language governing permissions and limitations under  
* the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/CharSink.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/escape/package-info.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/io/BaseEncoding.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/reflect/package-info.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/CartesianList.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/math/PairedStats.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/RateLimiter.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/reflect/Element.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/xml/package-  
info.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/util/concurrent/ServiceManager.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/collect/FilteredKeyMultimap.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-  
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
```

jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/html/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/TypeCapture.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/math/LinearTransformation.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TreeRangeMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TreeTraverser.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RangeMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TransformedListIterator.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingDeque.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/DescendingMultiset.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactHashSet.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EvictingQueue.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingObject.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TreeMultiset.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ForwardingMultiset.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/IncidentEdgeSet.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CompactHashing.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/MultimapBuilder.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/MoreFiles.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License

* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

* or implied. See the License for the specific language governing permissions and limitations under

* the License.

```

*/
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

```

Found in path(s):

```

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Partially.java

```

No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright (C) 2013 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */

```

Found in path(s):

```

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

```

jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/VerifyException.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/LocalCache.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2011 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not  
* use this file except in compliance with the License. You may obtain a copy of  
* the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT  
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the  
* License for the specific language governing permissions and limitations under  
* the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedMultisets.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2011 The Guava Authors.  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software distributed under the License  
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
```

express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/package-info.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2020 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/ToDoubleRounder.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/Java8Compatibility.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/BigDecimalMath.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Java8Compatibility.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TopKSelector.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/Network.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MutableGraph.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/Graphs.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/Graph.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java

No license file was found, but licenses were detected in source scan.

/*

- * Copyright (C) 2009 The Guava Authors
- *
- * Licensed under the Apache License, Version 2.0 (the "License");
- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at
- *
- * <http://www.apache.org/licenses/LICENSE-2.0>
- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ComputationException.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ComparisonChain.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ArrayTable.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ForwardingTable.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TableCollectors.java

No license file was found, but licenses were detected in source scan.

/*

* Written by Doug Lea with assistance from members of JCP JSR-166

* Expert Group and released to the public domain, as explained at

* <http://creativecommons.org/publicdomain/zero/1.0/>

*/

Found in path(s):

- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Striped64.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/LongAdder.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/Striped64.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/LongAdder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Platform.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2016 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/DirectedNetworkConnections.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2017 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ClosingFuture.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2020 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software distributed under the License  
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
express  
* or implied. See the License for the specific language governing permissions and limitations under  
* the License.  
*/  
/**  
* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
```

* version.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2016 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

/**

* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you
* may not use this file except in compliance with the License. You may
* obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
* implied. See the License for the specific language governing
* permissions and limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/Streams.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software distributed under the
* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either
* express or implied. See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedAsList.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/base/Strings.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2012 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software distributed under the License  
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
express  
* or implied. See the License for the specific language governing permissions and limitations under  
* the License.
```

```
*/  
/*  
* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the  
* following header:  
*  
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author  
* hereby disclaims copyright to this source code.  
*/
```

Found in path(s):
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/SmallCharMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2020 The Guava Authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except  
* in compliance with the License. You may obtain a copy of the License at
```

```
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of { @code Ints}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright (C) 2005 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/Reflection.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
*/
```

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/
/**

* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/ObjectArrays.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableMap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/collect/IndexedImmutableSet.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2009 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):

`/opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2011 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
```


Found in path(s):

- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/RemovalListener.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/package-info.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/primitives/UnsignedInts.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/LoadingCache.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheLoader.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/Types.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/reflect/TypeParameter.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/hash/PrimitiveSink.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/base/Optional.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-jar/com/google/common/cache/AbstractCache.java
- * /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Enums.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/package-info.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/math/MathPreconditions.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

/*

* This following method is a modified version of one found in

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

* which contained the following notice:

*

* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to
* the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

*

* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.

*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2020 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at

```
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/CommonMatcher.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/PatternCompiler.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/CommonPattern.java
```

```
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/JdkPattern.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2006 The Guava Authors
*
*/
```

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-

```
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1162863591_1620924149.63/0/guava-30-1-1-jre-sources-
jar/com/google/common/util/concurrent/CollectionFuture.java
```

1.74 generex 1.0.2

1.74.1 Available under license :

No license file was found, but licenses were detected in source scan.

Generex is licensed under the Apache License, Version 2.0.

<http://www.apache.org/licenses/LICENSE-2.0>

Found in path(s):

```
* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-
e910243/README.md
```

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
  <name>Generex</name>
  <url>https://github.com/mifmif/Generex/tree/master</url>
  <description>Generex A Java Library for regex to Strings generation</description>
  <packaging>jar</packaging>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>mifmif</id>
      <name>MIFRAH Youssef</name>
      <email>mifmif.com@gmail.com</email>
    </developer>
    <developer>
```

```

<id>mkolisnyk</id>
<name>mkolisnyk</name>
<email>kolesnik.nickolay@gmail.com</email>
</developer>
</developers>

<parent>
<groupId>org.sonatype.oss</groupId>
<artifactId>oss-parent</artifactId>
<version>7</version>
</parent>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<maven.pmd.excludes>*/generated-sources/*</maven.pmd.excludes>
</properties>
<scm>
<connection>scm:git:git@github.com:mifmif/Generex.git</connection>
<developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
<url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
<url>https://travis-ci.org/mifmif/Generex/builds</url>
<system>Travis</system>
<notifiers>
<notifier>
<address>mifmif.com@gmail.com</address>
<type>mail</type>
</notifier>
<notifier>
<address>kolesnik.nickolay@gmail.com</address>
<type>mail</type>
</notifier>
</notifiers>
</ciManagement>

<distributionManagement>
<snapshotRepository>
<id>ossrh</id>
<url>https://oss.sonatype.org/content/repositories/snapshots</url>
</snapshotRepository>
<repository>
<id>ossrh</id>
<url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
</repository>
</distributionManagement>

```



```

<build>
  <sourceDirectory>src/main/java</sourceDirectory>
  <testSourceDirectory>src/test/java</testSourceDirectory>
  <resources>
    <resource>
      <directory>src</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>target/dependency</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>src/main/resources</directory>
      <includes>
        <include>**/*.properties</include>
      </includes>
    </resource>
  </resources>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-install-plugin</artifactId>
      <version>2.5.2</version>
      <configuration>
        <file>target/${project.artifactId}-${project.version}.jar</file>
        <groupId>${project.groupId}</groupId>
        <artifactId>${project.artifactId}</artifactId>
        <version>${project.version}</version>
        <packaging>maven-plugin</packaging>
      </configuration>
    </plugin>

    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.5.1</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>

```

```

<version>3.0.2</version>
<configuration>
  <excludes>
    <exclude>*</exclude>
    <exclude>com/thoughtworks/**/*</exclude>
    <exclude>freemarker/**/*</exclude>
    <exclude>ftl/**/*</exclude>
    <exclude>i18n/**/*</exclude>
    <exclude>style/**/*</exclude>
    <exclude>junit/**/*</exclude>
    <exclude>licenses/**/*</exclude>
    <exclude>META-INF/maven/**/*</exclude>
    <exclude>org/codehaus/**/*</exclude>
    <exclude>org/hamcrest/**/*</exclude>
    <exclude>org/jbehave/**/*</exclude>
    <exclude>org/junit/**/*</exclude>
    <exclude>org/testng/**/*</exclude>
    <exclude>org/xmlpull/**/*</exclude>
    <exclude>stories/**/*</exclude>
    <exclude>style/**/*</exclude>
    <exclude>tests/**/*</exclude>
  </excludes>
  <archive>
    <manifest>
      <addClasspath>>false</addClasspath>
      <addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
      <addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
      <addExtensions>>false</addExtensions>
      <classpathLayoutType>simple</classpathLayoutType>
    </manifest>
  </archive>
</configuration>
</plugin>
<plugin>
  <artifactId>maven-assembly-plugin</artifactId>
  <version>2.6</version>
  <configuration>
    <descriptors>
      <descriptor>./sources.xml</descriptor>
    </descriptors>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-dependency-plugin</artifactId>
  <version>2.10</version>
</plugin>
<plugin>

```

```
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.3</version>
<configuration>
  <show>private</show>
  <nohelp>>false</nohelp>
  <failOnError>>false</failOnError>
  <sourcepath>src/main/java</sourcepath>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <configuration>
    <tagNameFormat>v@{project.version}</tagNameFormat>
    <preparationGoals>package install:install-file</preparationGoals>
    <scmCommentPrefix>#3</scmCommentPrefix>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-deploy-plugin</artifactId>
  <version>2.8.2</version>
  <configuration>
    <skip>>true</skip>
  </configuration>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
    <execution>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <executions>
    <execution>
```

```
<id>attach-javadocs</id>
<goals>
  <goal>jar</goal>
</goals>
</execution>
</executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>deploy</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

```
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <executions>
    <execution>
      <id>default-deploy</id>
      <phase>deploy</phase>
      <goals>
        <goal>deploy</goal>
      </goals>
    </execution>
  </executions>
  <extensions>true</extensions>
  <configuration>
    <serverId>osrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
```

```

<configuration>
  <failOnViolation>true</failOnViolation>
  <excludeRoots>
    <excludeRoot>target/generated-sources/plugin</excludeRoot>
  </excludeRoots>
  <excludes>
    <exclude>**/HelpMojo.java</exclude>
  </excludes>
</configuration>
<executions>
  <execution>
    <goals>
      <goal>check</goal>
      <goal>cpd-check</goal>
    </goals>
    <configuration>
      <failOnViolation>true</failOnViolation>
      <excludes>
        <exclude>**/HelpMojo.java</exclude>
      </excludes>
    </configuration>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-checkstyle-plugin</artifactId>
  <version>2.10</version>
  <configuration>
    <excludes>**/test/java/**/*.*.java</excludes>
    <configLocation>./sun_checks.xml</configLocation>
    <suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
    <failOnViolation>true</failOnViolation>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>cobertura-maven-plugin</artifactId>
  <version>2.6</version>
  <configuration>
    <check>

```

```

<haltOnFailure>>false</haltOnFailure>
<totalBranchRate>80</totalBranchRate>
<totalLineRate>80</totalLineRate>
<packageLineRate>80</packageLineRate>
<packageBranchRate>80</packageBranchRate>
</check>
<instrumentation>
  <excludes>
    <exclude>**/HelpMojo.class</exclude>
  </excludes>
</instrumentation>
</configuration>
<executions>
  <execution>
    <id>verification</id>
    <phase>verify</phase>
    <goals>
      <goal>check</goal>
      <goal>cobertura</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>javancss-maven-plugin</artifactId>
  <version>2.0</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <ccnLimit>10</ccnLimit>
    <ncssLimit>100</ncssLimit>
    <failOnViolation>>true</failOnViolation>
    <excludes>
      <exclude>**/tests/**/*.*</exclude>
    </excludes>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>findbugs-maven-plugin</artifactId>
  <version>3.0.3</version>

```

```
<configuration>
  <encoding>${project.build.sourceEncoding}</encoding>
  <failOnError>true</failOnError>
  <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
</configuration>
<executions>
  <execution>
    <goals>
      <goal>check</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>jdepend-maven-plugin</artifactId>
  <version>2.0</version>
</plugin>
</plugins>
</build>
<dependencies>
  <dependency>
    <groupId>dk.brics.automaton</groupId>
    <artifactId>automaton</artifactId>
    <version>1.11-8</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-junit</artifactId>
    <version>2.0.0.0</version>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>
```

Found in path(s):

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 y.mifrah

*

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterable.java

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterator.java

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Node.java

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Main.java

* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Generex.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2015 y.mifrah

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):


```
* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-
e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2015 y.mifrah
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
* See the License for the specific language governing permissions and
```

```
* limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-
e910243/src/test/java/com/mifmif/common/regex/GenerexIteratorUnitTest.java
```

1.75 fabric8-::-kubernetes-model-::-policy

4.10.3

1.75.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.76 better-files 3.9.1

1.76.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015-2020 Pathikrit Bhowmick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.77 kqueue 4.1.76.Final

1.77.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2016 The Netty Project
~
~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:
~
~ https://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-
jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2016 The Netty Project
*
```

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-jar/netty_kqueue_bsdsocket.c
* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-jar/netty_kqueue_eventarray.c
* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-jar/netty_kqueue_native.c
* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1473592053_1668494735.0463588/0/netty-transport-native-kqueue-4-1-76-final-sources-1-jar/netty_kqueue_eventarray.h

1.78 javax-inject1-as-osgi-bundle 2.6.1

1.78.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content
Distributed under this Agreement, and

b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;

where such changes and/or additions to the Program originate from
and are Distributed by that particular Contributor. A Contribution
"originates" from a Contributor if it was added to the Program by

such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such

Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every

other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE

EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient.

No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that

is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise

to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute

software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program ``Gnomovision'` (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: <https://projects.eclipse.org/projects/ee4j.glassfish>

Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/glassfish-ha-api>
- * <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- * <https://github.com/eclipse-ee4j/glassfish-shoal>
- * <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- * <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- * <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
- * <https://github.com/eclipse-ee4j/glassfish-hk2>
- * <https://github.com/eclipse-ee4j/glassfish-fighterfish>

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is

permitted.

1.79 checker-qual 3.10.0

1.79.1 Available under license :

Checker Framework qualifiers

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.80 jdbi3-core 3.27.2

1.80.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->
```

Found in path(s):

* /opt/cola/permits/1341639723_1654785866.3520873/0/jdbi3-core-3-27-2-jar/META-INF/maven/org.jdbi/jdbi3-core/pom.xml

1.81 micrometer-metrics/micrometer 1.9.0

1.81.1 Available under license :

Micrometer

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This product contains a modified portion of 'io.netty.util.internal.logging',
in the Netty/Common library distributed by The Netty Project:

- * Copyright 2013 The Netty Project
- * License: Apache License v2.0
- * Homepage: <https://netty.io>

This product contains a modified portion of 'StringUtils.isBlank()',
in the Commons Lang library distributed by The Apache Software Foundation:

- * Copyright 2001-2019 The Apache Software Foundation
- * License: Apache License v2.0
- * Homepage: <https://commons.apache.org/proper/commons-lang/>

This product contains a modified portion of 'JsonUtf8Writer',
in the Moshi library distributed by Square, Inc:

- * Copyright 2010 Google Inc.
- * License: Apache License v2.0
- * Homepage: <https://github.com/square/moshi>

This product contains a modified portion of the 'org.springframework.lang' package in the Spring Framework library, distributed by VMware, Inc:

- * Copyright 2002-2019 the original author or authors.
- * License: Apache License v2.0
- * Homepage: <https://spring.io/projects/spring-framework>
Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.82 jcommander-library 1.72

1.82.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* Copyright (C) 2011 the original author or authors.

* See the notice.md file distributed with this work for additional

* information regarding copyright ownership.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/validators/NoValueValidator.java

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IPParameterValidator.java

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/validators/PositiveInteger.java

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-

jar/com/beust/jcommander/IPParameterValidator2.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/validators/NoValidator.java
No license file was found, but licenses were detected in source scan.

```
/**  
 * Copyright (C) 2010 the original author or authors.  
 * See the notice.md file distributed with this work for additional  
 * information regarding copyright ownership.  
 *  
 * Licensed under the Apache License, Version 2.0 (the "License");  
 * you may not use this file except in compliance with the License.  
 * You may obtain a copy of the License at  
 *  
 * http://www.apache.org/licenses/LICENSE-2.0  
 *  
 * Unless required by applicable law or agreed to in writing, software  
 * distributed under the License is distributed on an "AS IS" BASIS,  
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
 */
```

Found in path(s):

```
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/ResourceBundle.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/BaseConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/internal/Sets.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/ParameterDescription.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/IntegerConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/ISO8601DateConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/StringConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/ParametersDelegate.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/LongConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/IDefaultProvider.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/FileConverter.java  
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-  
jar/com/beust/jcommander/converters/PathConverter.java
```

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/Parameters.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/BigDecimalConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/ParameterException.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/FloatConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/NoConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/Maps.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/URICConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IStringConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/Lists.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/URLConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/DoubleConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/CharArrayConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/Parameter.java

No license file was found, but licenses were detected in source scan.

/**

- * Copyright (C) 2010 the original author or authors.
- * See the notice.md file distributed with this work for additional
- * information regarding copyright ownership.
- *
- * Licensed under the Apache License, Version 2.0 (the "License");
- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at

*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/JCommander.java

1.83 jackson-annotations 2.13.3

1.83.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.84 vavr 0.10.2

1.84.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.85 jersey-media-jaxb 2.31

1.85.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

* License MIT (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://angularjs.org>

* Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

* License: all the source code provided by AOP Alliance is Public Domain.

* Project: <http://aopalliance.sourceforge.net>

* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

* License: Apache License, 2.0

* Project: <http://beanvalidation.org/1.1/>

* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors

* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

* License: Apache License, 2.0

* Project: <https://beanvalidation.org/>

* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7

* License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

* Project: <http://getbootstrap.com>

* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

* License: Apache License, 2.0

* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

* License: Apache License, 2.0

* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

* License: Apache License, 2.0

* Project: <http://www.javassist.org/>

* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

* License: Apache License, 2.0

* Project: <https://github.com/FasterXML/jackson-jaxrs-providers>

* Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

* License: jquery.org/license

* Project: jquery.org

* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

* License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> &
<http://www.gnu.org/licenses/gpl.html>)

* Project: <http://www.pasella.it/projects/jquery/barcode>

* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

* License: CC0

* No copyright

* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>
- # Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which

are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall

apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness

for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged

intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of

the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),

version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis

or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other

recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.86 config-com-typesafe-config 1.3.3

1.86.1 Available under license :

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

1.87 opentelemetry-java 1.14.0-alpha

1.87.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.88 ktor-bom 1.6.1

1.88.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.89 kafka-protobuf-provider 5.5.5

1.89.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-schema-registry-parent</artifactId>
```

```
<version>5.5.5</version>
```

```
</parent>
```

```
<licenses>
  <license>
    <name>Confluent Community License</name>
    <url>http://www.confluent.io/confluent-community-license</url>
    <distribution>repo</distribution>
  </license>
  <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
    <distribution>repo</distribution>
  </license>
</licenses>
```

```
<artifactId>kafka-protobuf-provider</artifactId>
<packaging>jar</packaging>
<name>kafka-protobuf-provider</name>
```

```
<dependencies>
  <dependency>
    <groupId>com.squareup.wire</groupId>
    <artifactId>wire-schema</artifactId>
  </dependency>
  <dependency>
    <groupId>org.jetbrains.kotlin</groupId>
    <artifactId>kotlin-stdlib</artifactId>
  </dependency>
  <dependency>
    <groupId>com.google.protobuf</groupId>
    <artifactId>protobuf-java</artifactId>
  </dependency>
  <dependency>
    <groupId>com.google.protobuf</groupId>
    <artifactId>protobuf-java-util</artifactId>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-client</artifactId>
  </dependency>
  <dependency>
    <groupId>org.mockito</groupId>
    <artifactId>mockito-core</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
```

```

</dependencies>

<build>
  <plugins>
    <plugin>
      <groupId>com.github.os72</groupId>
      <artifactId>protoc-jar-maven-plugin</artifactId>
    </plugin>
  </plugins>
</build>
</project>

```

Found in path(s):

```

* /opt/cola/permits/1340031662_1654757729.7702703/0/kafka-protobuf-provider-5-5-5-jar/META-INF/maven/io.confluent/kafka-protobuf-provider/pom.xml

```

1.90 micronaut-aws 3.2.3

1.90.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

```

* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/AmazonComputeInstanceMetadataResolver.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/package-info.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/AmazonNetworkInterface.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/EC2MetadataKeys.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-

```

```
jar/io/micronaut/discovery/cloud/aws/AmazonEC2InstanceMetadata.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-
jar/io/micronaut/aws/AWSConfiguration.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-
jar/io/micronaut/aws/package-info.java
* /opt/cola/permits/1331474006_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-
jar/io/micronaut/discovery/cloud/aws/AmazonMetadataConfiguration.java
```

1.91 io-swagger-swagger-annotations 2.1.12

1.91.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
Manifest-Version: 1.0
Bundle-Description: swagger-annotations
Automatic-Module-Name: io.swagger.v3.oas.annotations
Bundle-License: "Apache License 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.html"
package: io.swagger
Bundle-SymbolicName: io.swagger.core.v3.swagger-annotations
implementation-version: 2.1.12
Built-By: runner
Bundle-ManifestVersion: 2
Bundle-DocURL: https://github.com/swagger-api/swagger-core/modules/swagger-annotations
Import-Package: io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.enums,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v3.oas.annotations.info,io.swagger.v3.oas.annotations.links,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.annotations.parameters,io.swagger.v3.oas.annotations.responses,io.swagger.v3.oas.annotations.security,io.swagger.v3.oas.annotations.servers,io.swagger.v3.oas.annotations.tags
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Bundle-Developers: fehguy;email="fehguy@gmail.com";name="Tony Tam",webbron;email="webbron@gmail.com";name="Ron Ratovsky"
url: https://github.com/swagger-api/swagger-core/modules/swagger-annotations
mode: development
Export-Package: io.swagger.v3.oas.annotations;uses:="io.swagger.v3.oas.annotations.enums,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.info,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.annotations.parameters,io.swagger.v3.oas.annotations.responses,io.swagger.v3.oas.annotations.security,io.swagger.v3.oas.annotations.servers,io.swagger.v3.oas.annotations.tags";version="2.1.12",io.swagger.v3.oas.annotations.callbacks;uses:="io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.extensions";version="2.1.12",io.swagger.v3.oas.annotations.enums;version="2.1.12",io.swagger.v3.oas.ann
```

otations.extensions;version="2.1.12",io.swagger.v3.oas.annotations.headers;uses:"io.swagger.v3.oas.annotations.media";version="2.1.12",io.swagger.v3.oas.annotations.info;uses:"io.swagger.v3.oas.annotations.extensions";version="2.1.12",io.swagger.v3.oas.annotations.links;uses:"io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.servers";version="2.1.12",io.swagger.v3.oas.annotations.media;uses:"io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers";version="2.1.12",io.swagger.v3.oas.annotations.parameters;uses:"io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.media";version="2.1.12",io.swagger.v3.oas.annotations.responses;uses:"io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v3.oas.annotations.links,io.swagger.v3.oas.annotations.media";version="2.1.12",io.swagger.v3.oas.annotations.security;uses:"io.swagger.v3.oas.annotations.enums,io.swagger.v3.oas.annotations.extensions";version="2.1.12",io.swagger.v3.oas.annotations.servers;uses:"io.swagger.v3.oas.annotations.extensions";version="2.1.12",io.swagger.v3.oas.annotations.tags;uses:"io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.extensions";version="2.1.12"

Bundle-Name: swagger-annotations

Bundle-Version: 2.1.12

Bundle-SCM: url="https://github.com/swagger-api/swagger-core/modules/swagger-annotations",connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-annotations",developer-connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-annotations",tag=HEAD

Created-By: Apache Maven 3.8.4

Build-Jdk: 1.8.0_312

Found in path(s):

* /opt/cola/permits/1340031602_1654736977.0737062/0/swagger-annotations-2-1-12-jar/META-INF/MANIFEST.MF

1.92 wire-schema 3.7.0

1.92.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ServiceElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/EnumElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ExtensionsElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/Util.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ExtendElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/MessageElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/OptionElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/TypeElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ProtoFileElement.kt
- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ProtoParser.kt

No license file was found, but licenses were detected in source scan.

/*

- * Copyright 2021 Square Inc.
- *
- * Licensed under the Apache License, Version 2.0 (the "License");
- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at
- *
- * <http://www.apache.org/licenses/LICENSE-2.0>
- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/internal/SchemaEncoder.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2017 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/internal/parser/OptionReader.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2019 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/jvmMain/com/squareup/wire/schema/CoreLoader.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/jvmMain/com/squareup/wire/schema/internal/UtilJVM.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/FileLinker.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/Loader.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/SemVer.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/SchemaException.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/Field.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/MarkSet.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/Options.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/MessageType.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/ProtoMember.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/Service.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/OneOf.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/Rpc.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/EnumType.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/SchemaProtoAdapterFactory.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/ProtoType.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/PruningRules.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Extend.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Schema.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/EnumConstant.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Location.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/ProtoFile.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Pruner.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Type.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Extensions.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Linker.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/EnumConstantElement.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/OneOfElement.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/FieldElement.kt

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/RpcElement.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2016 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/GroupElement.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/ReservedElement.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/EnclosingType.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Reserved.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/parser/SyntaxReader.kt

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/jvmMain/com/squareup/wire/schema/Multimap.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-

jar/commonMain/com/squareup/wire/schema/CycleChecker.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/jvmMain/com/squareup/wire/schema/ClaimedDefinitions.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/DagChecker.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/CoreLoader.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/SyntaxRules.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/jvmMain/com/squareup/wire/schema/EmittingRules.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/jvmMain/com/squareup/wire/schema/internal/JvmLanguages.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/Multimap.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/ErrorCollector.kt
* /opt/cola/permits/1473577674_1668493704.7653778/0/wire-schema-3-7-0-sources-jar/commonMain/com/squareup/wire/schema/internal/TypeMover.kt

1.93 bom 4.1.76.Final

1.93.1 Available under license :

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of

his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/*

* Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.

*

* @APPLE_LICENSE_HEADER_START@

*

* This file contains Original Code and/or Modifications of Original Code

* as defined in and that are subject to the Apple Public Source License

* Version 2.0 (the 'License'). You may not use this file except in

* compliance with the License. Please obtain a copy of the License at

* <https://www.opensource.apple.com/appl/> and read it before using this

* file.
*
* The Original Code and all software distributed under the License are
* distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
* EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
* INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
* Please see the License for the specific language governing rights and
* limitations under the License.
*
* @APPLE_LICENSE_HEADER_END@
*/

The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present

and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

(BSD License: <https://www.opensource.org/licenses/bsd-license>)

Copyright (c) 2011, Joe Walnes, Aslak Hellesy and contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Webbit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.

(<https://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Netty Project

=====

Please visit the Netty web site for more information:

* <https://netty.io/>

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

- * LICENSE:
- * license/LICENSE.jsr166y.txt (Public Domain)
- * HOMEPAGE:
- * <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>
- * <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

- * LICENSE:
- * license/LICENSE.base64.txt (Public Domain)
- * HOMEPAGE:
- * <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

- * LICENSE:
- * license/LICENSE.webbit.txt (BSD License)
- * HOMEPAGE:
- * <https://github.com/joewalnes/webbit>

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

- * LICENSE:
- * license/LICENSE.slf4j.txt (MIT License)

* HOMEPAGE:

* <https://www.slf4j.org/>

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

* NOTICE:

* [license/NOTICE.harmony.txt](#)

* LICENSE:

* [license/LICENSE.harmony.txt](#) (Apache License 2.0)

* HOMEPAGE:

* <https://archive.apache.org/dist/harmony/>

This product contains a modified portion of 'jzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

* LICENSE:

* [license/LICENSE.jzip2.txt](#) (MIT License)

* HOMEPAGE:

* <https://code.google.com/p/jzip2/>

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE:

* [license/LICENSE.libdivsufsort.txt](#) (MIT License)

* HOMEPAGE:

* <https://github.com/y-256/libdivsufsort>

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

* LICENSE:

* [license/LICENSE.jctools.txt](#) (ASL2 License)

* HOMEPAGE:

* <https://github.com/JCTools/JCTools>

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE:

* [license/LICENSE.jzlib.txt](#) (BSD style License)

* HOMEPAGE:

* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.compress-lzf.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.lz4.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jpountz/lz4-java>

This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.lzma-java.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jponge/lzma-java>

This product optionally depends on 'zstd-jni', a zstd-jni Java compression and decompression library, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.zstd-jni.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/luben/zstd-jni>

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.jfastlz.txt (MIT License)
- * HOMEPAGE:
 - * <https://code.google.com/p/jfastlz/>

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.protobuf.txt (New BSD License)
- * HOMEPAGE:
 - * <https://github.com/google/protobuf>

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the

equivalent functionality. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.bouncycastle.txt (MIT License)
- * HOMEPAGE:
 - * <https://www.bouncycastle.org/>

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.snappy.txt (New BSD License)
- * HOMEPAGE:
 - * <https://github.com/google/snappy>

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jboss-remoting/jboss-marshalling>

This product optionally depends on 'Caliper', Google's micro-benchmarking framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.caliper.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/google/caliper>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.commons-logging.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.log4j.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://logging.apache.org/log4j/>

This product optionally depends on 'Aalto XML', an ultra-high performance

non-blocking XML processor, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.aalto-xml.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://wiki.fasterxml.com/AaltoHome>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.hpack.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/twitter/hpack>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.hyper-hpack.txt (MIT License)
- * HOMEPAGE:
 - * <https://github.com/python-hyper/hpack/>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.nghttp2-hpack.txt (MIT License)
- * HOMEPAGE:
 - * <https://github.com/nghttp2/nghttp2/>

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.commons-lang.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://commons.apache.org/proper/commons-lang/>

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

- * LICENSE:
 - * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/takari/maven-wrapper>

This product contains the dnsinfo.h header file, that provides a way to retrieve the system DNS configuration on MacOS.

This private header is also used by Apple's open source mDNSResponder (<https://opensource.apple.com/tarballs/mDNSResponder/>).

* LICENSE:

* license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)

* HOMEPAGE:

* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

This product optionally depends on 'Brotli4j', Brotli compression and decompression for Java., which can be obtained at:

* LICENSE:

* license/LICENSE.brotli4j.txt (Apache License 2.0)

* HOMEPAGE:

* <https://github.com/hyperxpro/Brotli4j>

Protocol Buffers - Google's data interchange format

Copyright 2013 Google Inc. All rights reserved.

<https://developers.google.com/protocol-buffers/>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner

of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

/*

* Copyright (c) 2004-2007 QOS.ch

* All rights reserved.

*

* Permission is hereby granted, free of charge, to any person obtaining

* a copy of this software and associated documentation files (the

* "Software"), to deal in the Software without restriction, including

* without limitation the rights to use, copy, modify, merge, publish,

* distribute, sublicense, and/or sell copies of the Software, and to

* permit persons to whom the Software is furnished to do so, subject to

* the following conditions:

*

* The above copyright notice and this permission notice shall be

* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*/

This copy of Aalto XML processor is licensed under the

Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the

specific rights regarding derivate works.

You may obtain a copy of the License at:

<https://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package

and jar that contains class bytecodes, as file "ASL 2.0". In both cases,

that file should be located next to this file: in source distribution

the location should be "release-notes/asl"; and in jar "META-INF/"

Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at

The Apache Software Foundation (<https://www.apache.org/>).

1.94 testcontainers-core 1.16.2

1.94.1 Available under license :

ibmcom/db2:11.5.0.0a

The MIT License (MIT)

Copyright (c) 2017 - 2019 G DATA Software AG and other authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2017 Capital One Services, LLC and other authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015-2019 Richard North

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

1.95 jackson-datatype-joda 2.13.3

1.95.1 Available under license :

This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.96 micronaut-security 3.5.0

1.96.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2022 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509AuthenticationArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/ControllerConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/SensitiveEndpointRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509AuthenticationFetcher.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509ConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/AbstractOutgoingRequestProcessorMatcher.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509Configuration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/utils/LoggingUtils.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509Authentication.java

No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/META-INF/native-image/io.micronaut.security/micronaut-security/native-image.properties

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilterConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/ServerAuthentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AbstractPrincipalArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilterConfigurationProperties.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationRequest.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionRequest.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/validator/TokenValidator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/handlers/LoginHandler.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/BasicAuthUtils.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationMode.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/AuthenticationFetcher.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/generator/TokenGenerator.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/ConfigurationInterceptUrlMapRule.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/SecurityRuleResult.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LoginController.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/TokenAuthenticationFetcher.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/AbstractSecurityRule.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/generator/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/reader/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/validator/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/handlers/RedirectingLoginHandler.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/UsernamePasswordCredentials.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/event/LoginFailedEvent.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/handlers/LogoutHandler.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/IpPatternsRule.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/DefaultIntrospectionProcessor.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationResponse.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/event/RefreshTokenGeneratedEvent.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/SecurityConfigurationProperties.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/config/TokenConfigurationProperties.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/RolesFinder.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/event/LogoutEvent.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/PrincipalArgumentBinder.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/reader/HttpHeaderTokenReader.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/IssuingAnAccessTokenErrorCode.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagator.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/handlers/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagatorConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/SecuredAnnotationRule.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionProcessor.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/Authenticator.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/utils/SecurityService.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationModeCondition.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/utils/DefaultSecurityService.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LogoutControllerConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/PriorToLoginPersistence.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/event/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LogoutController.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/event/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/BasicAuthAuthenticationConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/config/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/TokenPropagator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/refresh/RefreshTokenPersistence.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/ErrorCode.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/Authentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/AuthenticationStrategy.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/reader/TokenResolver.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/reader/DefaultTokenResolver.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LogoutControllerConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/TokenAuthenticationFactory.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/BasicAuthAuthenticationFetcher.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/generator/RefreshTokenGenerator.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/config/TokenConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/SecurityRule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/reader/TokenReader.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/Claims.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/TokenCookieConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationFailed.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/jackson/SecurityJacksonModule.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/DefaultAuthorizationExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/SecurityConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/ObtainingAuthorizationErrorCode.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionController.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/introspection/IntrospectionResponse.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/RefreshRedirectConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagatorConfigurationProperties.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/OauthErrorResponseException.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/InterceptUrlMapRule.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationFailureReason.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationProvider.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/rules/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/validator/RefreshTokenValidator.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthorizationException.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/CookiePriorToLoginPersistence.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/ForbiddenRedirectConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/RedirectConfigurationProperties.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/OauthErrorResponseExceptionHandler.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/MapClaims.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/TokenPropagationHttpClientFilter.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/event/AccessTokenGeneratedEvent.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/event/TokenValidatedEvent.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/DefaultRolesFinder.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/UnauthorizedRedirectConfiguration.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/package-info.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationException.java

* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/errors/ErrorResponse.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/AuthenticationModeConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/RedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AuthenticationArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/CookieBasedAuthenticationModeCondition.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/TokenPropagationConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LoginControllerConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/InterceptUrlMapPattern.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/ClientAuthentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/LoginControllerConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/event/LoginSuccessfulEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/config/InterceptUrlMapConverter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/TokenPropagationConfiguration.java

1.97 jmes-path-query-library 1.12.192

1.97.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Found in path(s):

* /opt/cola/permits/1473592108_1668797694.807343/0/jmespath-java-1-12-192-jar/META-INF/maven/com.amazonaws/jmespath-java/pom.xml

1.98 hamcrest 1.3

1.98.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN">
<HTML>
<HEAD>
<TITLE>Common Public License - v 1.0</TITLE>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
</HEAD>

<BODY BGCOLOR="#FFFFFF" VLINK="#800000">

<P ALIGN="CENTER"><B>Common Public License - v 1.0</B>
<P><B></B><FONT SIZE="3"></FONT>
<P><FONT SIZE="3"></FONT><FONT SIZE="2">THE ACCOMPANYING PROGRAM IS PROVIDED
UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE,
REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE
OF THIS AGREEMENT.</FONT>
<P><FONT SIZE="2"></FONT>
<P><FONT SIZE="2"><B>1. DEFINITIONS</B></FONT>
<P><FONT SIZE="2">"Contribution" means:</FONT>

<UL><FONT SIZE="2">a) in the case of the initial Contributor, the initial code and documentation distributed
under this Agreement, and<BR CLEAR="LEFT">
b) in the case of each subsequent Contributor:</FONT></UL>

<UL><FONT SIZE="2">i) changes to the Program, and</FONT></UL>

<UL><FONT SIZE="2">ii) additions to the Program;</FONT></UL>

<UL><FONT SIZE="2">where such changes and/or additions to the Program originate from and are distributed by
that particular Contributor. </FONT><FONT SIZE="2">A Contribution 'originates' from a Contributor if it was
added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. </FONT><FONT
SIZE="2">Contributions do not include additions to the Program which: (i) are separate modules of software
distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of
the Program. </FONT></UL>

<P><FONT SIZE="2"></FONT>
<P><FONT SIZE="2">"Contributor" means any person or entity that distributes the Program.</FONT>
<P><FONT SIZE="2"></FONT><FONT SIZE="2"></FONT>
<P><FONT SIZE="2">"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily
infringed by the use or sale of its Contribution alone or when combined with the Program. </FONT>
<P><FONT SIZE="2"></FONT><FONT SIZE="2"></FONT>
```

<P>"Program" means the Contributions distributed in accordance with this Agreement.

<P>

<P>"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

<P>

<P>2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

<P>3. REQUIREMENTS

<P>A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

<P>When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

<P><STRIKE></STRIKE>

<P><STRIKE></STRIKE>Contributors may not remove or alter any copyright notices contained within the Program.

<P>

<P>Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

<P>

<P>4. COMMERCIAL DISTRIBUTION

<P>Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

<P>

<P>For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

<P>

<P>5. NO WARRANTY

<P>EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

<P>

<P>6. DISCLAIMER OF LIABILITY

<P>EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

<P>

<P>7. GENERAL

<P>If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

<P>

<P>If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

<P>

<P>All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

<P>

<P>Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

<P>

<P>This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

<P>

<P>

</BODY>

</HTML>

BSD License

Copyright (c) 2000-2006, www.hamcrest.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000-2003, jMock.org
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of jMock nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
```

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>EasyMock License</title>
<link rel="stylesheet" href="easymock.css" />
</head>
```

```
<body><div class="bodywidth">
```

```
<h2>
EasyMock 2 License (MIT License)
</h2>
```

```
<em>Copyright (c) 2001-2006 <a href="http://www.offis.de">OFFIS</a>, <a
href="http://www.tammofreese.de">Tammo Freese</a>.</em>
```

```
<p>
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:
```

```
</p>
```

```
<p>
```

```
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the
Software.
```

```
</p>
```

```
<p>
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

</p>

</div>

</body>

</html>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.99 archaius-core 0.7.6

1.99.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices

that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be

enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.100 guava-internalfuturefailureaccess-and-internalfutures 1.0.1

1.100.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/cola/permits/1130987386_1612872111.26/0/failureaccess-1-0-1-sources-
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
* /opt/cola/permits/1130987386_1612872111.26/0/failureaccess-1-0-1-sources-
jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.101 fabric8-::-kubernetes-model-::-api- extensions 4.10.3

1.101.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.102 hystrix-serialization 1.5.18

1.102.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
```

```
* Copyright 2016 Netflix, Inc.
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixConfiguration.java
- * /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixRequestEvents.java
- * /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixUtilization.java
- * /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixDashboardData.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2016 Netflix, Inc.

* <p/>

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

* <p/>

* <http://www.apache.org/licenses/LICENSE-2.0>

* <p/>

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixMetric.java

1.103 akka-parsing 10.1.12

1.103.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance

* with RFC 2045.

* On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster

* on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)

* compared to `sun.misc.Encoder()/Decoder()`.

* On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and about 50% faster for decoding large arrays. This implementation is about twice as fast on very small arrays (< 30 bytes). If source/destination is a `String` this version is about three times as fast due to the fact that the Commons Codec result has to be recoded to a `String` from `byte[]`, which is very expensive.

* This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only allocates the resulting array. This produces less garbage and it is possible to handle arrays twice as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown whether Sun's `sun.misc.Encoder()/Decoder()` produce temporary arrays but since performance is quite low it probably does.

* The encoder produces the same output as the Sun one except that the Sun's encoder appends a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the length and is probably a side effect. Both are in conformance with RFC 2045 though.

* Commons codec seem to always add a trailing line separator.

* **Note!**

* The encode/decode method pairs (types) come in three versions with the **exact** same algorithm and thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different format types. The methods not used can simply be commented out.

* There is also a "fast" version of all decode methods that works the same way as the normal ones, but has a few demands on the decoded input. Normally though, these fast versions should be used if the source if the input is known and it hasn't been tampered with.

* If you find the code useful or you find a bug, please send me a note at [base64 @ miginfocom . com](mailto:base64@miginfocom.com).

* Licence (BSD):
 * =====
 *
 * Copyright (c) 2004, Mikael Grev, MiG InfoCom AB. ([base64 @ miginfocom . com](mailto:base64@miginfocom.com))
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without modification,
 * are permitted provided that the following conditions are met:
 * Redistributions of source code must retain the above copyright notice, this list
 * of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice, this
 * list of conditions and the following disclaimer in the documentation and/or other
 * materials provided with the distribution.
 * Neither the name of the MiG InfoCom AB nor the names of its contributors may be
 * used to endorse or promote products derived from this software without specific
 * prior written permission.
 *

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.
* IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
* INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA,
* OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY
* OF SUCH DAMAGE.
*
* @version 2.2
* @author Mikael Grev
* Date: 2004-aug-02
* Time: 11:31:11
*
* Adapted in 2009 by Mathias Doenitz.
*/

Found in path(s):

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-
jar/akka/parboiled2/util/Base64.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2011-13 Miles Sabin

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-
jar/akka/shapeless/ops/hlists.scala

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/shapeless/hlists.scala

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/shapeless/syntax/hlists.scala

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2013-14 Miles Sabin

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/shapeless/package.scala

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009-2017 Mathias Doenitz, Alexander Myltsev

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/package.scala

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/package.scala

* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/ParseError.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/RunResult.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/RuleDSLActions.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/ActionOps.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/RuleDSLBasics.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/Parser.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/Lifter.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/DynamicRuleDispatch.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/ValueStack.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/ActionOpsSupport.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/OpTreeContext.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/CharUtils.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/CharPredicate.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/Unpack.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/Rule.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/ErrorFormatter.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/ParserInput.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/TailSwitch.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/support/HListable.scala
* /opt/cola/permits/1473592083_1668494842.3813112/0/akka-parsing-2-11-10-1-12-sources-jar/akka/parboiled2/RuleDSLCombinators.scala

1.104 opentracing-api 0.31.0

1.104.1 Available under license :

No license file was found, but licenses were detected in source scan.

2018 The OpenTracing Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE>

2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Found in path(s):

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/META-INF/maven/io.opentracing/opentracing-api/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016-2018 The OpenTracing Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

* or implied. See the License for the specific language governing permissions and limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/tag/IntTag.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/propagation/TextMapInjectAdapter.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/propagation/TextMapExtractAdapter.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/References.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/Scope.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/tag/IntOrStringTag.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/tag/StringTag.java

* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-

jar/io/opentracing/tag/AbstractTag.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/propagation/Format.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/Tracer.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/Span.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/tag/Tags.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/tag/BooleanTag.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/log/Fields.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/propagation/TextMap.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/ScopeManager.java
* /opt/cola/permits/1131856260_1613029791.21/0/opentracing-api-0-31-0-sources-3-jar/io/opentracing/SpanContext.java

1.105 jersey-inject-hk2 2.35

1.105.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

- * License MIT (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://angularjs.org>
- * Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

- * License: all the source code provided by AOP Alliance is Public Domain.
- * Project: <http://aopalliance.sourceforge.net>
- * Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0
- * Project: <http://beanvalidation.org/1.1/>
- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0
- * Project: <https://beanvalidation.org/>
- * Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)
- * Project: <http://getbootstrap.com>
- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0

- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. <http://www.w3.org/Consortium/Legal/>
- * Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making

modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than

those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations

of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all

risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the

responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to

share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a

notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program

is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special

exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is
making a combined work based on this library. Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent

modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.106 rxjava 1.3.8

1.106.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 * Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/util/Pow2.java
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/unsafe/Pow2.java
```

No license file was found, but licenses were detected in source scan.

====

Copyright 2014 Netflix, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

====

This package "rx.internal.operators" is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (<http://netflix.github.io/RxJava/javadoc/>) and should not be relied upon by any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/README.md

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/GenericScheduledExecutorService.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/ActionN.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorNotImplementedException.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action9.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/BehaviorSubject.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeSubscriber.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/exceptions/CompositeException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorMaterialize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func2.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorTakeUntil.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action4.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorTakeLast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Observer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/CachedThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorZip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/RxRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorToObservableList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observers/Observers.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/subscriptions/Subscriptions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/subscriptions/BooleanSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSkipLastTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSkip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action7.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/BlockingOperatorToFuture.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTake.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorUnsubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action0.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/LinkedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/SubjectSubscriptionManager.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeLastTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/UnsubscribeFailedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/TestScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action1.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/TestObserver.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorAny.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorScan.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/EventLoopsScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/PublishSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Scheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaPlugins.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorCast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDoOnEach.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/BlockingObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/ImmediateScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/ConnectableObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CachedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func1.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorIgnoreElements.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/BufferUntilSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/schedulers/TrampolineScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/NotificationLite.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorAsObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeToObservableFuture.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorAll.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorMerge.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeDefer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorTakeUntilPredicate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/BackpressureDrainManager.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/subscriptions/SequentialSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOnSubscribeMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDematerialize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDoOnRequest.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeJoin.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeToMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observers/SerializedObserver.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/BlockingOperatorLatest.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/subscriptions/SerialSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action6.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeAutoConnect.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorThrottleFirst.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/TestSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipWhile.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func9.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTimestamp.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/MissingBackpressureException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorReplay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/CompositeSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDelay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/FuncN.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SubscriptionList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorThrowable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ScalarSynchronousObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action3.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRedo.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/SerializedSubject.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Completable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/TrampolineScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeGroupJoin.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeTimeout.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Subscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/Schedulers.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoOnEvent.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFilter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipLast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/UnicastSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SleepingAction.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action8.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/AsyncSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/ImmediateScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTimeInterval.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func7.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Functions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorElementAt.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func0.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/SyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/Subscribers.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeAmb.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/TimeInterval.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSequenceEqual.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMapNotification.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/ReplaySubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/IndexedRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorToIterator.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Notification.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func6.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/RefCountSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorCast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/Exceptions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimeoutSelectorWithFallback.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnCompletedFailedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Function.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeWhile.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRange.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaObservableExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorMostRecent.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func4.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/Subject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimeoutTimedWithFallback.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SerializedSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action2.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWithLatestFromMany.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorObserveOn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSerialize.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func8.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Producer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorGroupBy.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/Timestamped.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSwitchIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMerge.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func3.java

No license file was found, but licenses were detected in source scan.

This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

As of June 10 2014 when this code was copied the LICENSE read as:

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/README.md

No license file was found, but licenses were detected in source scan.

```
/**
 * Copyright 2016 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleTimeout.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleFromObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ObserverSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/observers/AssertableSubscriberObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ActionSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeLift.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/annotations/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observers/AsyncCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOnErrorReturn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
```


jar/rx/internal/operators/OnSubscribeDetach.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleTakeUntilCompletable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeFlattenIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/functions/Cancellable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleTakeUntilObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Emitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/EmptyObservableHolder.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleDoOnUnsubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ActionNotificationObserver.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/InternalObservableUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/BackpressureOverflow.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleObserveOn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeOnAssembly.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaHooks.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleFromFuture.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/package-
info.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleToObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleFromEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDelay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SchedulerWhen.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeThrow.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ActionObserver.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/subscriptions/CancellableSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleTakeUntilSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/subscriptions/Unsubscribed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/NeverObservableHolder.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/AssertableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/singles/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeCreate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/SpscUnboundedAtomicArrayQueue.java
No license file was found, but licenses were detected in source scan.

/**

* Copyright 2018 Netflix, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorGroupByEvicting.java
No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/ConcurrentCircularArrayQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/ConcurrentCircularArrayQueue.java
No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/OpenHashSet.java
No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpmcArrayQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/SpmcArrayQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MessagePassingQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/MessagePassingQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/BaseLinkedQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/BaseLinkedQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/QueueProgressIndicators.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/util/unsafe/QueueProgressIndicators.java

No license file was found, but licenses were detected in source scan.

```
/**
```

```
* Copyright 2016 Netflix, Inc.
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License"); you may not
```

```
* use this file except in compliance with the License. You may obtain a copy of
```

```
* the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
```

```
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
```

```
* License for the specific language governing permissions and limitations under
```

```
* the License.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeCollect.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/util/SuppressAnimalSniffer.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeFromCallable.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/schedulers/SchedulerLifecycle.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/util/ExceptionsUtils.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeReduceSeed.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeConcatMap.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/DeferredScalarSubscriber.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleOnSubscribeUsing.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeReduce.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleOperatorZip.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeTakeLastOne.java
```

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribePublishMulticast.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2015 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/QueuedProducer.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/SingleProducer.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BackpressureUtils.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/ProducerArbiter.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/SingleDelayedProducer.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/QueuedValueProducer.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/ProducerObserverArbiter.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpmcArrayQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/MpmcArrayQueue.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2017 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFlatMapCompletable.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFlatMapSingle.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright one 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeToMultimap.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not

* use this file except in compliance with the License. You may obtain a copy of

* the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimerPeriodically.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimerOnce.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/ExecutorScheduler.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservable.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDistinctUntilChanged.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMulticast.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorRetryWithPredicate.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMapPair.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorPublish.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDelayWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/ScheduledAction.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorTakeTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/SpSCLinkedListArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/RxThreadFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSwitch.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWithLatestFrom.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Actions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorSkipUntil.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*  
* Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE  
* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java  
*/
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/MpscLinkedAtomicQueue.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and
```

* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java
No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in
* compliance with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software distributed under the License is
* distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
or implied. See
* the License for the specific language governing permissions and limitations under the License.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/UtilityFunctions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Observable.java
No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Inspired from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/annotations/Experimental.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/AtomicReferenceArrayQueue.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2015 Netflix, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleSubscriber.java

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-

```
jar/rx/singles/BlockingSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observables/AsyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/BlockingUtils.java
```

No license file was found, but licenses were detected in source scan.

```
/**
```

```
* Copyright 2015 Netflix, Inc.
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in
* compliance with the License. You may obtain a copy of the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software distributed under the License is
```

```
* distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
or implied. See
```

```
* the License for the specific language governing permissions and limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeCombineLatest.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Single.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2016 Netflix, Inc.
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
* See the License for the specific language governing permissions and
```

```
* limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/CompletableEmitter.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableFromEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/CompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleEmitter.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/SpseLinkedQueue.java
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/unsafe/SpseLinkedQueue.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/SpseArrayQueue.java
*/
```


Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/SpSCArrayQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpscLinkedQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/MpscLinkedQueue.java

No license file was found, but licenses were detected in source scan.

Copyright 2014 Netflix, Inc.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE>

2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/package.html

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 * Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/SpSCAtomicArrayQueue.java
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java
```

No license file was found, but licenses were detected in source scan.

```
/**
 * Copyright 2014 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 * This plugin class provides 2 ways to customize {@link Scheduler} functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 */
```

*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See { @link RxJavaPlugins } or the RxJava GitHub Wiki for information on configuring plugins:
* https://github.com/ReactiveX/RxJava/wiki/Plugins.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaSchedulersHook.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.

* <p/>

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

* <p/>

* <http://www.apache.org/licenses/LICENSE-2.0>

* <p/>

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ScalarSynchronousSingle.java

No license file was found, but licenses were detected in source scan.

/**

* Copyright 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

/*

* This mechanism for getting UNSAFE originally from:

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/util/UnsafeAccess.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/UnsafeAccess.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Originally from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/annotations/Beta.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpSCUnboundedArrayQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/SpSCUnboundedArrayQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>

* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/SpSCLinkedAtomicQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>
* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/LinkedQueueNode.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/LinkedQueueNode.java

1.107 zjsonpatch 0.3.0

1.107.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <groupId>com.flipkart.zjsonpatch</groupId>
  <artifactId>zjsonpatch</artifactId>
  <version>0.3.0</version>
  <packaging>jar</packaging>
```

```
  <name>zjsonpatch</name>
  <description>Java Library to find / apply JSON Patches according to RFC 6902</description>
  <url>https://github.com/flipkart-incubator/zjsonpatch/</url>
```

```
  <scm>
    <connection>scm:git:https://github.com/flipkart-incubator/zjsonpatch.git</connection>
    <developerConnection>scm:git:https://github.com/flipkart-incubator/zjsonpatch.git</developerConnection>
    <tag>HEAD</tag>
    <url>https://github.com/flipkart-incubator/zjsonpatch/</url>
  </scm>
```

```
  <developers>
    <developer>
      <id>vishwakarma</id>
      <name>Gopi Vishwakarma</name>
      <email>vishwakarma.iiita@gmail.com</email>
    </developer>
  </developers>
```

```
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
```

```

    </license>
</licenses>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <jackson.version>2.8.5</jackson.version>
</properties>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.3.1</version>
      <configuration>
        <source>1.6</source>
        <target>1.6</target>
        <showDeprecation>>true</showDeprecation>
        <showWarnings>>true</showWarnings>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.2.1</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>

```

```

    <groupId>org.sonatype.plugins</groupId>
    <artifactId>nexus-staging-maven-plugin</artifactId>
    <version>1.6.3</version>
    <extensions>true</extensions>
    <configuration>
      <serverId>ossrh</serverId>
      <nexusUrl>https://oss.sonatype.org/</nexusUrl>
      <autoReleaseAfterClose>true</autoReleaseAfterClose>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-gpg-plugin</artifactId>
    <version>1.4</version>
    <executions>
      <execution>
        <id>sign-artifacts</id>
        <phase>verify</phase>
        <goals>
          <goal>sign</goal>
        </goals>
      </execution>
    </executions>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-release-plugin</artifactId>
    <version>2.5</version>
    <configuration>
      <autoVersionSubmodules>true</autoVersionSubmodules>
      <useReleaseProfile>false</useReleaseProfile>
      <releaseProfiles>release</releaseProfiles>
      <goals>deploy</goals>
    </configuration>
  </plugin>
</plugins>
</build>
<dependencies>
  <dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
    <version>${jackson.version}</version>
  </dependency>
  <dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-core</artifactId>
    <version>${jackson.version}</version>
  </dependency>

```



```

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <version>18.0</version>
</dependency>
<dependency>
  <scope>test</scope>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.4</version>
</dependency>
<dependency>
  <scope>test</scope>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.12</version>
</dependency>
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-collections4</artifactId>
  <version>4.1 </version>
</dependency>
</dependencies>
<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
  <repository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
  </repository>
</distributionManagement>
</project>

```

Found in path(s):

* /opt/cola/permits/1288519755_1647351836.02/0/zjsonpatch-0-3-0-jar/META-INF/maven/com.flipkart.zjsonpatch/zjsonpatch/pom.xml

1.108 jackson-datatype-guava 2.13.3

1.108.1 Available under license :

This copy of Jackson JSON processor `jackson-datatype-guava` module is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.109 jackson-integration-for-metrics 4.1.29

1.109.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.json

Build-Jdk-Spec: 1.8

Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.json

Bundle-Version: 4.1.29

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics, com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4.1.29"

Implementation-Title: Jackson Integration for Metrics

Implementation-Version: 4.1.29

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;version="[4.1,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.fasterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson.databind.ser.std;version="[2.9,3)"

Require-Capability: osgi.ee:filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1473592329_1668797197.4932332/0/metrics-json-4-1-29-jar/META-INF/MANIFEST.MF

1.110 fabric8-:::-kubernetes-model-:::-settings

4.10.3

1.110.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.111 netty/transport/classes/kqueue

4.1.76.Final

1.111.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2021 The Netty Project
~
~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:
~
~ https://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1473592208_1668798304.6474621/0/netty-transport-classes-kqueue-4-1-76-final-jar/META-INF/maven/io.netty/netty-transport-classes-kqueue/pom.xml
```

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Classes/KQueue

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.classes.kqueue

Bundle-License: https://www.apache.org/licenses/LICENSE-2.0

Bundle-SymbolicName: io.netty.transport-classes-kqueue

Implementation-Version: 4.1.76.Final

Built-By: chris

Bnd-LastModified: 1649788190018

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.kqueue;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util.concurrent";version="4.1.76"
Bundle-Name: Netty/Transport/Classes/KQueue
Bundle-Version: 4.1.76.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312
Implementation-URL: <https://netty.io/netty-transport-classes-kqueue/>

Found in path(s):

* /opt/cola/permits/1473592208_1668798304.6474621/0/netty-transport-classes-kqueue-4-1-76-final-jar/META-INF/MANIFEST.MF

1.112 junit-platform-junit-platform-commons

1.8.2

1.112.1 Available under license :

Eclipse Public License - v 2.0

=====

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. Definitions

Contribution means:

* **a)** in the case of the initial Contributor, the initial content Distributed under this Agreement, and

* **b)** in the case of each subsequent Contributor:

* **i)** changes to the Program, and

* **ii)** additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular

Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself

or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of ****a)**** distributing or ****b)**** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. Grant of Rights

****a)**** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

****b)**** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

****c)**** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any

other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

****d)**** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

****e)**** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. Requirements

****3.1)**** If a Contributor Distributes the Program in any form, then:

****a)**** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

****b)**** the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

****i)**** effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

****ii)**** effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

****iii)**** does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

****iv)**** requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

****3.2)**** When the Program is Distributed as Source Code:

****a)**** it must be made available under this Agreement, or if the Program ****i)**** is combined with other material in a separate file or files made available under a Secondary License, and ****ii)**** the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

****b)**** a copy of this Agreement must be included with each copy of the Program.

****3.3)**** Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who

includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: ****a)**** promptly notify the Commercial Contributor in writing of such claim, and ****b)**** allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit)

alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here }.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Open Source Licenses

=====

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

1.113 kafka-protobuf-serializer 5.5.5

1.113.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
  <groupId>io.confluent</groupId>
```

```
  <artifactId>kafka-schema-registry-parent</artifactId>
```

```
  <version>5.5.5</version>
```

```
</parent>
```

```
<licenses>
```

```
  <license>
```

```
    <name>Confluent Community License</name>
```

```
    <url>http://www.confluent.io/confluent-community-license</url>
```

```
    <distribution>repo</distribution>
```

```
  </license>
```

```
  <license>
```

```
    <name>Apache License 2.0</name>
```

```
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
```

```
    <distribution>repo</distribution>
```

```
  </license>
```

```
</licenses>
```

```
<artifactId>kafka-protobuf-serializer</artifactId>
```

```
<packaging>jar</packaging>
```

```
<name>kafka-protobuf-serializer</name>
```

```
<dependencies>
```

```
  <dependency>
```

```
    <groupId>org.apache.kafka</groupId>
```

```
    <artifactId>kafka_${kafka.scala.version}</artifactId>
```

```
    <scope>provided</scope>
```

```
  </dependency>
```

```
  <dependency>
```

```
    <groupId>io.confluent</groupId>
```

```
    <artifactId>kafka-protobuf-provider</artifactId>
```

```
  </dependency>
```

```
  <dependency>
```

```
    <groupId>com.google.protobuf</groupId>
```

```
    <artifactId>protobuf-java-util</artifactId>
```

```
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-serializer</artifactId>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-client</artifactId>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry</artifactId>
  <type>test-jar</type>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>connect-api</artifactId>
  <scope>provided</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>kafka-clients</artifactId>
  <classifier>test</classifier>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>kafka_${kafka.scala.version}</artifactId>
  <classifier>test</classifier>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-core</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <scope>test</scope>
</dependency>
</dependencies>
```

```

<build>
  <plugins>
    <plugin>
      <groupId>com.github.os72</groupId>
      <artifactId>protoc-jar-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>2.6</version>
      <executions>
        <execution>
          <goals>
            <goal>test-jar</goal>
          </goals>
          <phase>test-compile</phase>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
</project>

```

Found in path(s):

* /opt/cola/permits/1340031763_1654757661.098579/0/kafka-protobuf-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-protobuf-serializer/pom.xml

1.114 testng 6.14.3

1.115 jersey-ext-metainf-services 2.33

1.115.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed

source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

* License MIT (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://angularjs.org>

* Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

* License: all the source code provided by AOP Alliance is Public Domain.

* Project: <http://aopalliance.sourceforge.net>

* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

* License: Apache License, 2.0

* Project: <http://beanvalidation.org/1.1/>

* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors

* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

* License: Apache License, 2.0

* Project: <https://beanvalidation.org/>

* Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

* License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

* Project: <http://getbootstrap.com>

* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>
- # Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual

property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to

defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this

Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not

responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library

General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.116 metrics-utility-servlets 4.0.5

1.116.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1545938238563

Build-Jdk: 1.8.0_191

Built-By: artem

Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Utility Servlets

Bundle-SymbolicName: io.dropwizard.metrics.servlets

Bundle-Version: 4.0.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metrics,com.codahale.metrics.health,javax.servlet,javax.servlet.http";version="4.0.5"

Implementation-Title: Metrics Utility Servlets

Implementation-URL: <http://metrics.dropwizard.io/metrics-servlets>

Implementation-Vendor-Id: io.dropwizard.metrics

Implementation-Version: 4.0.5

Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.0,5)",com
.codahale.metrics.health;version="[4.0,5)",com.codahale.metrics.json;
version="[4.0,5)",com.codahale.metrics.jvm;version="[4.0,5)",com.fast
erxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databi
nd.util;version="[2.9,3)",com.papertrail.profiler.org.joda.time;versi
on="[2.9,3)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-3.3.0.201609221906

Found in path(s):

* /opt/cola/permits/1274701310_1648835822.95/0/metrics-servlets-4-0-5-jar/META-INF/MANIFEST.MF

1.117 leveldb 0.12

1.117.1 Available under license :

Copyright (C) 2011 the original author or authors.

See the notice.md file distributed with this work for additional
information regarding copyright ownership.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

LevelDB Copyright Notices

=====

* Copyright 2011 Dain Sundstrom <dain@iq80.com>

* Copyright 2011 FuseSource Corp. <http://fusesource.com>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.118 project-lombok 1.18.8

1.118.1 Available under license :

Copyright (C) 2009-2015 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.119 jakarta-expression-language-3.0-implementation 4.0.2

1.119.1 Available under license :

Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language project.

* Project home: <https://projects.eclipse.org/projects/ee4j.el>

Trademarks

Jakarta Expression Language is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/el-ri>

Third-party Content

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf.

Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses,

damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will

automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR

DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the

appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.120 apache-groovy 3.0.10

1.120.1 Available under license :

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

ANTLR 2 License

Antlr2 is released in the public domain.
See licenses/antlr2-license.txt for details.

ANTLR 4 License

Antlr4 is released under a BSD 3-clause license.
See licenses/antlr4-license.txt for details.

ASM License

ASM uses a 3-clause BSD license. For details, see licenses/asm-license.txt.

Hamcrest License (needed when using optional JUnit dependency)

This product bundles the Hamcrest jar, which is available under a BSD license. For details, see licenses/hamcrest-license.txt.

JAXB License (for optional groovy-jaxb extensions)

This product bundles several JAXB related jars in binary form.

The "javax.activation" jar is available under the CDDL 1.0 license:
licenses/activation-license.txt

The jaxb-api, jaxb-core and jaxb-impl jars use the CDDL 1.1 license:
licenses/jaxb-license.txt

JLine2 License (optional dependency used with groovysh)

This product bundles the JLine2 jar, which is available under a BSD License. For details, see licenses/jline2-license.txt.

javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet.jsp-api jar in binary form which is available under the CDDL 1.1 license:
licenses/jsp-api-license.txt

JSR166y License (optionally used by the optional GParas dependency)

This product bundles the jsr166y jar (containing works from the JSR-166 EG, Doug Lea, and Jason T. Greene) made available in the public domain. For details, see licenses/jsr166y-license.txt.

JSR223 License

The following classes within this product:

org.codehaus.groovy.jsr223.GroovyCompiledScript
org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
org.codehaus.groovy.jsr223.GroovyScriptEngineImpl

were derived from reference implementation files developed by Sun in collaboration with the Groovy community. The reference implementation has a BSD-style license. Details can be found in: licenses/jsr223-license.txt

JUnit Licenses (optional dependencies when using Groovy for testing)

This product bundles the JUnit 4 jar, which is available under the Eclipse Public License v1.0. For details, see licenses/junit4-license.txt.

This product bundles several JUnit 5 jars, which are available under the Eclipse Public License v2.0. For details, see licenses/junit5-license.txt.

normalize.css License

The stylesheet.css file (originally normalize.css) is used by the groovydoc and docgenerator components for groovy-jdk/gapi documentation. It is made available under a MIT License:
licenses/normalize-stylesheet-license.txt

javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet-api jar in binary form which is available under the CDDL 1.0 license:
licenses/servlet-api-license.txt

XStream License (optional dependency when serializing AST as XML)

This product bundles the XStream jar, which is available under a "3-clause BSD" license. For details, see licenses/xstream-license.txt.

This convenience zip embeds Groovy's src and doc zips.
See also src/LICENSE and doc/LICENSE files for additional license information.
Apache Commons Lang
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: `StringUtils.containsWhitespace()`)
javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet.jsp-api jar in binary form
which is available under the CDDL 1.1 license:
licenses/jsp-api-license.txt
javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet-api jar in binary form
which is available under the CDDL 1.0 license:
licenses/servlet-api-license.txt
ANTLR 2 License

We reserve no legal rights to the ANTLR--it is fully in the public domain. An individual or company may do whatever they wish with source code distributed with ANTLR or the code generated by ANTLR, including the incorporation of ANTLR, or its output, into commercial software.

We encourage users to develop software with ANTLR. However, we do ask that credit is given to us for developing ANTLR. By "credit", we mean that if you use ANTLR or incorporate any source code into one of your programs (commercial product, research project, or otherwise) that you acknowledge this fact somewhere in the documentation, research report, etc... If you like ANTLR and have developed a nice tool with the output, please mention that you developed it using ANTLR. In addition, we ask that the headers remain intact in our source code. As long as these guidelines are kept, we expect to continue enhancing this system and expect to make other tools available as they are completed.

In countries where the Public Domain status of the work may not be valid, the author grants a copyright licence to the general public to deal in the work without restriction and permission to sublicense derivatives under the terms of any (OSI approved) Open Source licence.

The Python parser generator code under `antlr/actions/python/` is covered by the 3-clause BSD licence (this part is included in the binary JAR files); the run-time part under `lib/python/` is covered by the GNU GPL, version 3 or later (this part is not included in the binary JAR files). See [1] for the full details.

<https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=750643#80%22>
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or

contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software

code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You

believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make

sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN

ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE

TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

AsciiDoc License

This product uses the style.css from asciidoctor.org within documentation. The file is available under the MIT License. For details, see licenses/asciidoc-style-license.txt.

JQuery License

The following file is used within documentation:

src/spec/assets/css/jquery-2.1.1.min.js

This file is made available under the following MIT license:
licenses/jquery-js-license.txt

JSR223 License

The following classes within this product:

org.codehaus.groovy.jsr223.GroovyCompiledScript
org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
org.codehaus.groovy.jsr223.GroovyScriptEngineImpl

were derived from reference implementation files developed by Sun in collaboration with the Groovy community. The reference implementation has a BSD-style license. Details can be found in: licenses/jsr223-license.txt

normalize.css License

The stylesheet.css file (originally normalize.css) is used by the groovydoc and docgenerator components for groovy-jdk/gapi documentation.

It is made available under a MIT License:

licenses/normalize-stylesheet-license.txt

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally

released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions

thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms

which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction.s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the

jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

normalize.css License

The stylesheet.css file (originally normalize.css) is used by the groovydoc and docgenerator components for groovy-jdk/gapi documentation.

It is made available under a MIT License:

licenses/normalize-stylesheet-license.txt

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first

makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such

combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in

Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the

Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined

in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

JSR223 License

The following classes within this product:

```
org.codehaus.groovy.jsr223.GroovyCompiledScript
org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
org.codehaus.groovy.jsr223.GroovyScriptEngineImpl
```

were derived from reference implementation files developed by Sun in collaboration with the Groovy community. The reference implementation has a BSD-style license. Details can be found in: licenses/jsr223-license.txt
Revised BSD license

This is a specific instance of the Open Source Initiative (OSI) BSD license template
<http://www.opensource.org/licenses/bsd-license.php>

Copyright 2004-2009 Brent Fulgham
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of "The Computer Language Benchmarks Game" nor the name of "The Computer Language Shootout Benchmarks" nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN

IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JLine2 License (optional dependency used with groovysh)

This product bundles the JLine2 jar, which is available under a BSD License. For details, see [licenses/jline2-license.txt](#).

JAXB License (for optional groovy-jaxb extensions)

This product bundles several JAXB related jars in binary form.

The "javax.activation" jar is available under the CDDL 1.0 license:
[licenses/activation-license.txt](#)

The jaxb-api, jaxb-core and jaxb-impl jars use the CDDL 1.1 license:
[licenses/jaxb-license.txt](#)

Apache Groovy

Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes/uses ANTLR2 (<http://www.antlr2.org/>)
developed by Terence Parr 1989-2006

This product includes/uses ANTLR4 (<https://github.com/antlr/antlr4>)
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

This product bundles the javax.servlet.jsp-api jar in binary
form which is available under the CDDL 1.1 license
and for which the following copyright notice applies
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.

This product bundles the JUnit4 jar (junit.org)
which is available under the terms of the Eclipse Public License v1.0

This product bundles several of the JUnit5 jars (junit.org)
which are available under the terms of the Eclipse Public License v2.0

This product embeds the OpenBeans jar within its grooid jar artifacts
OpenBeans includes/uses files from Apache Harmony and the following notice applies
Copyright 2006, 2010 The Apache Software Foundation.

Portions of Apache Harmony were originally developed by Intel Corporation and are
licensed to the Apache Software Foundation under the "Software Grant and Corporate
Contribution License Agreement" and for which the following copyright notices apply

(C) Copyright 2005 Intel Corporation

(C) Copyright 2005-2006 Intel Corporation

(C) Copyright 2006 Intel Corporation

This product bundles the javax.servlet-api jar in binary

form which is available under the CDDL 1.0 license
and for which the following copyright notice applies
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.

This product bundles icons from the famfamfam.com silk icons set
<http://www.famfamfam.com/lab/icons/silk/>
Licensed under the Creative Commons Attribution Licence v2.5
<http://creativecommons.org/licenses/by/2.5/>
ANTLR 4 License

Antlr4 is released under a BSD 3-clause license.
See [licenses/antlr4-license.txt](#) for details.
BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer. Redistributions in binary form must reproduce
the above copyright notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse
or promote products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever

copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache Groovy

Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

The Java source files in `src/main/java/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/` are from <https://github.com/ben-manes/concurrentlinkedhashmap> and the following notice applies:
Copyright 2010-2012 Google Inc. All Rights Reserved.

This product bundles icons from the famfamfam.com silk icons set
<http://www.famfamfam.com/lab/icons/silk/>
Licensed under the Creative Commons Attribution Licence v2.5
<http://creativecommons.org/licenses/by/2.5/>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Asciidoc License

This product uses the style.css from asciidoctor.org within documentation. The file is available under the MIT License. For details, see licenses/asciidoc-style-license.txt.

JQuery License

The following file is used within documentation:

src/spec/assets/css/jquery-2.1.1.min.js

This file is made available under the following MIT license:
licenses/jquery-js-license.txt

normalize.css License

The stylesheet.css file (originally normalize.css) is used by the groovydoc and docgenerator components for groovy-jdk/gapi documentation.

It is made available under a MIT License:
licenses/normalize-stylesheet-license.txt

ASM License

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"

AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003-2006, Joe Walnes

Copyright (c) 2006-2009, 2011 XStream Committers

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of XStream nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

JQuery License

The following file is used within documentation:

`src/spec/assets/css/jquery-2.1.1.min.js`

This file is made available under the following MIT license:

licenses/jquery-js-license.txt

////////////////////////////////////

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

////////////////////////////////////

= Contributors

The Groovy team would like to thank the contributors of this documentation (in alphabetical order of last/surname):

- * <https://github.com/mojavelinux>[Dan Allen]
- * <https://github.com/and-dmitry>[Dmitry Andreychuk]
- * <http://hamletdarcy.blogspot.fr/>[Hamlet D'Arcy]
- * <https://github.com/anshbansal>[Aseem Bansal]
- * <https://github.com/bura>[Andrey Bloschetsov]
- * <https://github.com/JBrownVisualSpection>[J Brown]
- * <https://github.com/jeffbrown>[Jeff Scott Brown]
- * <http://twitter.com/CedricChampeau>[Cdric Champeau]
- * <https://github.com/tobia>[Tobia Conforto]
- * <https://github.com/ddimitrov>[Dimitar Dimitrov]
- * <http://twitter.com/werdnagreb>[Andrew Eisenberg]
- * <https://github.com/erdi>[Marcin Erdmann]
- * <https://github.com/christoph-frick>[Christoph Frick]
- * <http://twitter.com/marioggar>[Mario Garca]
- * <https://github.com/davidmichaelkarr>[David Michael Karr]
- * http://twitter.com/paulk_asert[Paul King]
- * <http://twitter.com/glaforge>[Guillaume Laforge]
- * <http://twitter.com/pledbrook>[Peter Ledbrook]
- * <http://grantmcconnaughey.github.io/>[Grant McConnaughey]
- * <https://github.com/eric-milles>[Eric Milles]

- * <https://github.com/dnahodil>[David Nahodil]
- * <https://github.com/jnorthr>[James Northrop]
- * <https://github.com/marcpa00>[Marc Paquette]
- * <https://github.com/michaelss>[Michael Schuenck]
- * <https://github.com/PascalSchumacher>[Pascal Schumacher]
- * <https://github.com/shils>[Shil Sinha]
- * <https://github.com/stavytskyi>[Maksym Stavytskyi]
- * <https://twitter.com/asteingr>[Andr Steingre]
- * https://twitter.com/daniel_sun[Daniel Sun]
- * <https://github.com/EPadronU>[Edinson Padrn Urdaneta]
- * <https://github.com/keeganwitt>[Keegan Witt]

Copyright (c) 2002-2012, the original author or authors.
All rights reserved.

<http://www.opensource.org/licenses/bsd-license.php>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

NORMALIZE.CSS LICENSE

The following file is used with documentation:

`org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/stylesheet.css`

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This directory contains generated LICENSE files and snippets used to generate those files.

See the assemble.gradle file (updateLicenses task) for details on how this is done.

Snippets have predefined suffix values in their name to determine which files they go into.

LICENSE (the one for source), LICENSE-DOC and LICENSE-JARJAR get snippets containing SRC, DOC and JARJAR respectively. LICENSE-BINZIP gets JARJAR and BINZIP snippets. In addition, LICENSE files are generated for these subprojects: groovy-docgenerator, groovy-groovydoc, groovy-groovysh, groovy-jsr223

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

ANTLR 2 License

Antlr2 is released in the public domain.
See licenses/antlr2-license.txt for details.

ANTLR 4 License

Antlr4 is released under a BSD 3-clause license.
See licenses/antlr4-license.txt for details.

ASM License

ASM uses a 3-clause BSD license. For details, see licenses/asm-license.txt.

Hamcrest License (needed when using optional JUnit dependency)

This product bundles the Hamcrest jar, which is available under a
BSD license. For details, see licenses/hamcrest-license.txt.

JAXB License (for optional groovy-jaxb extensions)

This product bundles several JAXB related jars in binary form.

The "javax.activation" jar is available under the CDDL 1.0 license:
licenses/activation-license.txt

The jaxb-api, jaxb-core and jaxb-impl jars use the CDDL 1.1 license:
licenses/jaxb-license.txt

JLine2 License (optional dependency used with groovysh)

This product bundles the JLine2 jar, which is available under a
BSD License. For details, see licenses/jline2-license.txt.

javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet.jsp-api jar in binary form
which is available under the CDDL 1.1 license:
licenses/jsp-api-license.txt

JSR166y License (optionally used by the optional GParas dependency)

This product bundles the jsr166y jar (containing works from
the JSR-166 EG, Doug Lea, and Jason T. Greene) made available in
the public domain. For details, see licenses/jsr166y-license.txt.

JSR223 License

The following classes within this product:

org.codehaus.groovy.jsr223.GroovyCompiledScript
org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
org.codehaus.groovy.jsr223.GroovyScriptEngineImpl

were derived from reference implementation files developed by Sun in
collaboration with the Groovy community. The reference implementation
has a BSD-style license. Details can be found in: licenses/jsr223-license.txt

JUnit Licenses (optional dependencies when using Groovy for testing)

This product bundles the JUnit 4 jar, which is available under the Eclipse Public License v1.0. For details, see licenses/junit4-license.txt.

This product bundles several JUnit 5 jars, which are available under the Eclipse Public License v2.0. For details, see licenses/junit5-license.txt.

normalize.css License

The stylesheet.css file (originally normalize.css) is used by the groovydoc and docgenerator components for groovy-jdk/gapi documentation. It is made available under a MIT License:
licenses/normalize-stylesheet-license.txt

javax.servlet.jsp-api License (for groovy-servlet module)

This product bundles the javax.servlet-api jar in binary form which is available under the CDDL 1.0 license:
licenses/servlet-api-license.txt

XStream License (optional dependency when serializing AST as XML)

This product bundles the XStream jar, which is available under a "3-clause BSD" license. For details, see licenses/xstream-license.txt.
Apache Groovy
Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes/uses ANTLR2 (<http://wwwantlr2.org/>)
developed by Terence Parr 1989-2006

This product includes/uses ANTLR4 (<https://github.com/antlr/antlr4>)
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

This product bundles the javax.servlet.jsp-api jar in binary form which is available under the CDDL 1.1 license and for which the following copyright notice applies
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.

This product bundles the JUnit4 jar (junit.org)
which is available under the terms of the Eclipse Public License v1.0

This product bundles several of the JUnit5 jars (junit.org) which are available under the terms of the Eclipse Public License v2.0

This product embeds the OpenBeans jar within its grooid jar artifacts
OpenBeans includes/uses files from Apache Harmony and the following notice applies
Copyright 2006, 2010 The Apache Software Foundation.

Portions of Apache Harmony were originally developed by Intel Corporation and are licensed to the Apache Software Foundation under the "Software Grant and Corporate Contribution License Agreement" and for which the following copyright notices apply

- (C) Copyright 2005 Intel Corporation
- (C) Copyright 2005-2006 Intel Corporation
- (C) Copyright 2006 Intel Corporation

This product bundles the javax.servlet-api jar in binary form which is available under the CDDL 1.0 license and for which the following copyright notice applies
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.

This product bundles icons from the famfamfam.com silk icons set
<http://www.famfamfam.com/lab/icons/silk/>
Licensed under the Creative Commons Attribution Licence v2.5
<http://creativecommons.org/licenses/by/2.5/>

This convenience zip embeds Groovy's src and doc zips.
See also src/NOTICE and doc/NOTICE files for additional notice information.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

JSR223 License

The following classes within this product:

org.codehaus.groovy.jsr223.GroovyCompiledScript
org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
org.codehaus.groovy.jsr223.GroovyScriptEngineImpl

were derived from reference implementation files developed by Sun in

collaboration with the Groovy community. The reference implementation has a BSD-style license. Details can be found in: licenses/jsr223-license.txt
Copyright jQuery Foundation and other contributors, <https://jquery.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
XStream License (optional dependency when serializing AST as XML)

This product bundles the XStream jar, which is available under a "3-clause BSD" license. For details, see licenses/xstream-license.txt.
ANTLR 4 License

[The "BSD 3-clause license"]

Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NORMALIZE.CSS LICENSE

The following file is used with documentation:

`org/codehaus/groovy/tools/stylesheet.css`

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

////////////////////////////////////

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations

under the License.

////////////////////////////////////

= License

This work is licensed under the <http://www.apache.org/licenses/LICENSE-2.0> [Apache License, Version 2.0].
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions

of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial

Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

JSR166y License (optionally used by the optional GPars dependency)

This product bundles the jsr166y jar (containing works from the JSR-166 EG, Doug Lea, and Jason T. Greene) made available in the public domain. For details, see licenses/jsr166y-license.txt.

ANTLR 2 License

Antlr2 is released in the public domain.
See licenses/antlr2-license.txt for details.

Apache Groovy

Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes/uses ANTLR2 (<http://www.antlr2.org/>)
developed by Terence Parr 1989-2006

This product includes/uses ANTLR4 (<https://github.com/antlr/antlr4>)
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

ANTLR 2 License

Antlr2 is released in the public domain.
See licenses/antlr2-license.txt for details.

ANTLR 4 License

Antlr4 is released under a BSD 3-clause license.
See licenses/antlr4-license.txt for details.

ASM License

ASM uses a 3-clause BSD license. For details, see licenses/asm-license.txt.
Apache Groovy
Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product bundles icons from the famfamfam.com silk icons set
<http://www.famfamfam.com/lab/icons/silk/>
Licensed under the Creative Commons Attribution Licence v2.5
<http://creativecommons.org/licenses/by/2.5/>
Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. Definitions

Contribution means:

- a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
 - i) changes to the Program, and
 - ii) additions to the Program; where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. Grant of Rights

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
- e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. Requirements

3.1 If a Contributor Distributes the Program in any form, then:

- a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
- b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
 - i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
 - iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the

requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

(INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable means the Covered Software in any form other than Source Code.

1.5. Initial Developer means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License means this document.

1.8. Licensable means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of

Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a

result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,

INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO

THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS. The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS. This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS. As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

For Covered Software in this distribution, this License shall be governed by the laws of the State of California (excluding conflict-of-law provisions).

Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

Apache Groovy
Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).
Apache Groovy
Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product includes/uses ANTLR2 (<http://www.antlr2.org/>)
developed by Terence Parr 1989-2006

This product includes/uses ANTLR4 (<https://github.com/antlr/antlr4>)
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

This product embeds the OpenBeans jar within its grooid jar artifacts
OpenBeans includes/uses files from Apache Harmony and the following notice applies
Copyright 2006, 2010 The Apache Software Foundation.

Portions of Apache Harmony were originally developed by Intel Corporation and are
licensed to the Apache Software Foundation under the "Software Grant and Corporate
Contribution License Agreement" and for which the following copyright notices apply

- (C) Copyright 2005 Intel Corporation
- (C) Copyright 2005-2006 Intel Corporation
- (C) Copyright 2006 Intel Corporation

Apache Groovy
Copyright 2003-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This product embeds the OpenBeans jar within its grooid jar artifacts
OpenBeans includes/uses files from Apache Harmony and the following notice applies
Copyright 2006, 2010 The Apache Software Foundation.

Portions of Apache Harmony were originally developed by Intel Corporation and are
licensed to the Apache Software Foundation under the "Software Grant and Corporate
Contribution License Agreement" and for which the following copyright notices apply

- (C) Copyright 2005 Intel Corporation
- (C) Copyright 2005-2006 Intel Corporation
- (C) Copyright 2006 Intel Corporation

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

NORMALIZE.CSS LICENSE

The following file is used with documentation:

`org/codehaus/groovy/tools/stylesheet.css`

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (C) 2012-2015 Dan Allen, Ryan Waldron and the AsciiDoctor Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Hamcrest License (needed when using optional JUnit dependency)

This product bundles the Hamcrest jar, which is available under a BSD license. For details, see licenses/hamcrest-license.txt.

NORMALIZE.CSS LICENSE

The following file is used with documentation:

`org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/styleSheet.css`

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

JUnit Licenses (optional dependencies when using Groovy for testing)

This product bundles the JUnit 4 jar, which is available under the Eclipse Public License v1.0. For details, see licenses/junit4-license.txt.

This product bundles several JUnit 5 jars, which are available under the Eclipse Public License v2.0. For details, see licenses/junit5-license.txt.

ASM License

ASM uses a 3-clause BSD license. For details, see licenses/asm-license.txt.

Asciidoc License

This product uses the style.css from asciidoctor.org within documentation. The file is available under the MIT License.

For details, see licenses/asciidoc-style-license.txt.

Copyright (c) 2006, Sun Microsystems, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Sun Microsystems, Inc. nor the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.121 rxjava 2.2.21

1.121.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.122 fabric8-:::-kubernetes-model-:::- certificates 4.10.3

1.122.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.123 geantyref 1.3.13

1.123.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: Generic type reflection library with support for AnnotatedType

Automatic-Module-Name: io.leangen.geantyref

Bundle-License: "The Apache Software License, Version 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.txt"

Bundle-SymbolicName: io.leangen.geantyref.geantyref

Bnd-LastModified: 1636765501077

Bundle-ManifestVersion: 2

Bundle-DocURL: https://github.com/leangen/geantyref

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.0.0.202110041835

Export-Package: io.leangen.geantyref;version="1.3.1"

Bundle-Name: GeantyRef

Bundle-Version: 1.3.13

Bundle-SCM: url="https://github.com/leangen/geantyref",connection="scm:git:git://github.com/leangen/geantyref",developer-connection="scm:git:git://github.com/leangen/geantyref",tag="geantyref-v1.3.13"

Build-Jdk-Spec: 1.8

Created-By: 1.8.0_281 (Oracle Corporation)

Found in path(s):

* /opt/cola/permits/1341639953_1654785812.4849956/0/geantyref-1-3-13-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>io.leangen.geantyref</groupId>
  <artifactId>geantyref</artifactId>
  <packaging>jar</packaging>
  <version>1.3.13</version>

  <inceptionYear>2016</inceptionYear>
  <name>GeantyRef</name>
  <url>https://github.com/leangen/geantyref</url>
  <description>Generic type reflection library with support for AnnotatedType</description>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <scm>
    <connection>scm:git:git://github.com/leangen/geantyref</connection>
    <developerConnection>scm:git:git://github.com/leangen/geantyref</developerConnection>
    <url>https://github.com/leangen/geantyref</url>
    <tag>geantyref-v1.3.13</tag>
  </scm>
  <distributionManagement>
    <repository>
      <id>ossrh</id>
      <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
    </repository>
    <snapshotRepository>
      <id>ossrh</id>
      <url>https://oss.sonatype.org/content/repositories/snapshots</url>
    </snapshotRepository>
  </distributionManagement>
  <issueManagement>
    <system>GitHub Issue Tracking</system>
    <url>https://github.com/leangen/geantyref/issues</url>
  </issueManagement>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>

```

```

    <artifactId>junit</artifactId>
    <version>4.13.2</version>
    <scope>test</scope>
  </dependency>
</dependencies>

<build>
  <defaultGoal>package</defaultGoal>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.1</version>
      <configuration>
        <source>1.8</source>
        <target>1.8</target>
      </configuration>
    </plugin>

    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>3.2.0</version>
      <configuration>
        <archive>
          <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
          <manifestEntries>
            <Automatic-Module-Name>io.leangen.geantyref</Automatic-Module-Name>
          </manifestEntries>
        </archive>
      </configuration>
    </plugin>

    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-release-plugin</artifactId>
      <version>2.5.3</version>
      <configuration>
        <goals>deploy</goals>
        <useReleaseProfile>>false</useReleaseProfile>
        <releaseProfiles>release</releaseProfiles>
        <pushChanges>>false</pushChanges>
        <tagNameFormat>geantyref-v@{project.version}</tagNameFormat>
      </configuration>
    </plugin>

    <plugin>
      <groupId>biz.aQute.bnd</groupId>

```

```

<artifactId>bnd-maven-plugin</artifactId>
<version>6.0.0</version>
<executions>
  <execution>
    <goals>
      <goal>bnd-process</goal>
    </goals>
  </execution>
</executions>
</plugin>
</plugins>
</build>

<profiles>
<profile>
  <id>release</id>
  <build>
    <plugins>
      <plugin>
        <inherited>>true</inherited>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-deploy-plugin</artifactId>
        <version>2.8.2</version>
        <configuration>
          <updateReleaseInfo>>true</updateReleaseInfo>
        </configuration>
      </plugin>

      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
        <version>3.2.1</version>
        <executions>
          <execution>
            <id>attach-sources</id>
            <phase>verify</phase>
            <goals>
              <goal>jar</goal>
            </goals>
          </execution>
        </executions>
      </plugin>

      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-javadoc-plugin</artifactId>
        <version>3.3.1</version>
        <executions>

```

```

        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
    </configuration>
    <links>
      <link>https://docs.oracle.com/javase/8/docs/api/</link>
    </links>
    <version>>true</version>
    <show>public</show>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>verify</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
  <configuration>
    <useAgent>>true</useAgent>
  </configuration>
</plugin>

<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.8</version>
  <extensions>>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
    <autoReleaseAfterClose>true</autoReleaseAfterClose>
  </configuration>
</plugin>
</plugins>
</build>
</profile>

```



```
</profiles>

<developers>
  <developer>
    <name>Bojan Tomic</name>
    <email>veggen@gmail.com</email>
    <organization>Leangen</organization>
    <organizationUrl>http://leangen.io</organizationUrl>
  </developer>
</developers>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1341639953_1654785812.4849956/0/geantyref-1-3-13-jar/META-
INF/maven/io.leangen.geantyref/geantyref/pom.xml
```

1.124 unboundid-scim2-sdk-common 2.3.6

1.124.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2016-2020 Ping Identity Corporation
 *
 * This program is free software; you can redistribute it and/or modify
 * it under the terms of the GNU General Public License (GPLv2 only)
 * or the terms of the GNU Lesser General Public License (LGPLv2.1 only)
 * as published by the Free Software Foundation.
 *
 * This program is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
 * GNU General Public License for more details.
 *
 * You should have received a copy of the GNU General Public License
 * along with this program; if not, see <http://www.gnu.org/licenses>.
 */
```

Found in path(s):

```
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/MapperFactory.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/JsonDiff.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2019-2020 Ping Identity Corporation
```

*
* This program is free software; you can redistribute it and/or modify
* it under the terms of the GNU General Public License (GPLv2 only)
* or the terms of the GNU Lesser General Public License (LGPLv2.1 only)
* as published by the Free Software Foundation.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, see <<http://www.gnu.org/licenses>>.
*/

Found in path(s):

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/DateSerializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/types/GroupResource.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/DateTimeUtils.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/DateDeserializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/CalendarDeserializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/utils/CalendarSerializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-
jar/com/unboundid/scim2/common/types/Member.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015-2020 Ping Identity Corporation
*
* This program is free software; you can redistribute it and/or modify
* it under the terms of the GNU General Public License (GPLv2 only)
* or the terms of the GNU Lesser General Public License (LGPLv2.1 only)
* as published by the Free Software Foundation.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, see <<http://www.gnu.org/licenses>>.
*/

Found in path(s):

- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/GenericScimObjectSerializer.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/SchemaResource.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/package-info.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/ScimException.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/BulkConfig.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/ChangePasswordConfig.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/ForbiddenException.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/SortOrder.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/OrFilter.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/ErrorResponse.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/LessThanFilter.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/StaticUtils.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/ScimFilterJsonParser.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/NotEqualFilter.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/ETagConfig.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/PatchOperation.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/JsonUtils.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/JsonRefBeanSerializer.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/ScimJsonFactory.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/BaseScimResource.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/NotFilter.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/SchemaUtils.java
- * /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/NotModifiedException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/NotImplementedException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/GreaterThanFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/X509Certificate.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/UnauthorizedException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/JsonReference.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Meta.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/ResourceNotFoundException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Role.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/DebugType.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/PhoneNumber.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/CombiningFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/GenericScimObjectDeserializer.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/package-info.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/InstantMessagingAddress.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/GreaterThanOrEqualToFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Manager.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Photo.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/LessThanOrEqualToFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/EnterpriseUserExtension.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/GenericScimResource.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/package-info.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/FilterConfig.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/UserResource.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/StartsWithFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/StatusDeserializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/CaseIgnoreMap.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/ScimDateFormat.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/StatusSerializer.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/ServerErrorException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/Filter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/PreconditionFailedException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/package-info.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/package-info.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/Parser.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/PatchRequest.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Name.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/ResourceTypeResource.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/PatchOpType.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/FilterVisitor.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/annotations/Schema.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/Path.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/ScimResource.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/ResourceConflictException.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Entitlement.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Group.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/annotations/Attribute.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/PresentFilter.java
* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/FilterType.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/ListResponse.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/BadRequestException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/ApiConstants.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/annotations/package-info.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/EqualFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/ScimJsonNodeFactory.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/AndFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/SortConfig.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/AuthenticationScheme.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/Debug.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/messages/SearchRequest.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/AttributeDefinition.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ContainsFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ComplexValueFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/PatchConfig.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/FilterEvaluator.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/CaseIgnoreObjectNode.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/utils/package-info.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Address.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/Email.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/types/ServiceProviderConfigResource.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/ComparisonFilter.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/exceptions/MethodNotAllowedException.java

* /opt/cola/permits/1340031433_1654671331.583195/0/scim2-sdk-common-2-3-6-sources-jar/com/unboundid/scim2/common/filters/EndsWithFilter.java

1.125 kafka-schema-registry-client 5.5.5

1.125.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-parent</artifactId>
  <version>5.5.5</version>
</parent>
```

```
<licenses>
  <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
    <distribution>repo</distribution>
  </license>
</licenses>
```

```
<artifactId>kafka-schema-registry-client</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-registry-client</name>
```

```
<dependencies>
  <dependency>
    <groupId>org.apache.kafka</groupId>
    <artifactId>kafka-clients</artifactId>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>common-config</artifactId>
  </dependency>
```

```
<dependency>
  <groupId>org.apache.avro</groupId>
  <artifactId>avro</artifactId>
```

```
</dependency>
```

```
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
```

```
</dependency>
<dependency>
  <groupId>jakarta.ws.rs</groupId>
  <artifactId>jakarta.ws.rs-api</artifactId>
</dependency>
<dependency>
  <groupId>org.glassfish.jersey.core</groupId>
  <artifactId>jersey-common</artifactId>
  <version>${jersey.version}</version>
</dependency>
<dependency>
  <groupId>org.easymock</groupId>
  <artifactId>easymock</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.powermock</groupId>
  <artifactId>powermock-module-junit4</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.powermock</groupId>
  <artifactId>powermock-api-easymock</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>io.swagger</groupId>
  <artifactId>swagger-annotations</artifactId>
</dependency>
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <scope>test</scope>
</dependency>
</dependencies>
</project>
```

Found in path(s):

* /opt/cola/permits/1341639824_1654785850.9168322/0/kafka-schema-registry-client-5-5-5-jar/META-INF/maven/io.confluent/kafka-schema-registry-client/pom.xml

1.126 launchdarkly-sdk-for-java 5.7.1

1.126.1 Available under license :

Apache Commons Codec

Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<https://www.apache.org/>).

`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

The content of package `org.apache.commons.codec.language.bm` has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

Original source copyright:

Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

Note that `publicsuffixes.gz` is compiled from The Public Suffix List:

https://publicsuffix.org/list/public_suffix_list.dat

It is subject to the terms of the Mozilla Public License, v. 2.0:

<https://mozilla.org/MPL/2.0/>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.127 jakarta-ws-rs-api 2.1.6

1.127.1 Available under license :

Notices for the Jakarta RESTful Web Services Project

This content is produced and maintained by the ****Jakarta RESTful Web Services**** project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jaxrs>

Trademarks

Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jaxrs-api>

Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: <http://site.mockito.org>

* Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

Cryptography

Content may contain encryption software. The country in which you are currently

may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file

in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party

patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or

files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable.

However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will

individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to

distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the

Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.128 jersey-core-server 2.35

1.128.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

- * License MIT (<http://www.opensource.org/licenses/mit-license.php>)

- * Project: <http://angularjs.org>

- * Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

- * License: all the source code provided by AOP Alliance is Public Domain.

- * Project: <http://aopalliance.sourceforge.net>

- * Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0

- * Project: <http://beanvalidation.org/1.1/>

- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors

- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0

- * Project: <https://beanvalidation.org/>

- * Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

- * Project: <http://getbootstrap.com>

- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0

- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0

- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0

- * Project: <http://www.javassist.org/>

- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

Notice for Jersey Core Server module

This content is produced and maintained by the Eclipse Jersey project.

- * <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

org.glassfish.jersey.server.internal.monitoring.core

* License: Apache License, 2.0

* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.

* Copyright 2010-2013 Coda Hale and Yammer, Inc.

org.objectweb.asm Version 8.0

* License: Modified BSD (<http://asm.objectweb.org/license.html>)

* Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.

W3.org documents

* License: W3C License

* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making

modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than

those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations

of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all

risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the

responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to

share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a

notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program

is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special

exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is
making a combined work based on this library. Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent

modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.129 micronaut-reactor 2.2.2

1.129.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2019 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473741_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-
jar/io/micronaut/reactor/convert/ReactorConverterRegistrar.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright 2017-2021 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1331473741_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java
- * /opt/cola/permits/1331473741_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-jar/io/micronaut/reactor/convert/ReactorToRxJava3ConverterRegistrar.java

1.130 javax-annotation-api 1.3.2

1.130.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell,

offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the

Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their

nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-

law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to

surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the

executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

1.131 hk2-implementation-utilities 2.6.1

1.131.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the

Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular

file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of

it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the

Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: <https://projects.eclipse.org/projects/ee4j.glassfish>

Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms

of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/glassfish-ha-api>
- * <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- * <https://github.com/eclipse-ee4j/glassfish-shoal>
- * <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- * <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- * <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
- * <https://github.com/eclipse-ee4j/glassfish-hk2>
- * <https://github.com/eclipse-ee4j/glassfish-fighterfish>

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

1.132 apache-log4j-api 2.17.1

1.132.1 Available under license :

Apache Log4j API

Copyright 1999-1969 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.133 dropwizard-request-logging-support

2.0.28

1.133.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.134 netty-tomcatnative-openssl-dynamic

2.0.51.Final

1.134.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
~ Copyright 2016 The Netty Project
~
~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:
~
~ http://www.apache.org/licenses/LICENSE-2.0
```


~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->

Found in path(s):

* /opt/cola/permits/1473592353_1668798238.7776756/0/netty-tcnative-2-0-51-final-jar/META-INF/maven/io.netty/netty-tcnative/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.

Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86_64

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: io.netty.tcnative

Implementation-Version: 2.0.51.Final

Built-By: norman

Bnd-LastModified: 1646990978815

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Fragment-Host: io.netty.tcnative-classes

Tool: Bnd-5.1.1.202006162103

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]

Bundle-Version: 2.0.51.Final

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_252

Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative/>

Found in path(s):

* /opt/cola/permits/1473592353_1668798238.7776756/0/netty-tcnative-2-0-51-final-jar/META-INF/MANIFEST.MF

1.135 jersey-media-json-jackson 2.35

1.135.1 Available under license :

Notice for Jersey Json Jackson module

This content is produced and maintained by the Eclipse Jersey project.

* <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Jackson JAX-RS Providers version 2.10.1

* License: Apache License, 2.0

* Project: <https://github.com/FasterXML/jackson-jaxrs-providers>

* Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

- * License MIT (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://angularjs.org>
- * Coyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

- * License: all the source code provided by AOP Alliance is Public Domain.
- * Project: <http://aopalliance.sourceforge.net>
- * Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0
- * Project: <http://beanvalidation.org/1.1/>
- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0
- * Project: <https://beanvalidation.org/>
- * Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)
- * Project: <http://getbootstrap.com>
- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

* License: Apache License, 2.0

* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.

* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

* License: W3C License

* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity.

Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements

of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance

claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost

of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey

the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.136 netty/tomcatnative-[openssl---classes]

2.0.51.Final

1.136.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/TomcatNative [BoringSSL - Static]

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.

Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86_64

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: io.netty.tcnative-boringssl-static

Implementation-Version: 2.0.51.Final

Built-By: norman

Bnd-LastModified: 1646991568982

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.51.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative-boringssl-static/>

Found in path(s):

* /opt/cola/permits/1337070414_1654204942.7646887/0/netty-tcnative-boringssl-static-2-0-51-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<!--

~ Copyright 2016 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:

~

~ <http://www.apache.org/licenses/LICENSE-2.0>

~

~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.

-->

Found in path(s):

* /opt/cola/permits/1337070414_1654204942.7646887/0/netty-tcnative-boringssl-static-2-0-51-final-jar/META-INF/maven/io.netty/netty-tcnative-boringssl-static/pom.xml

1.137 reactive-relational-database-connectivity-bill-of-materials Arabba-SR11

1.137.1 Available under license :

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Reactive Relational Database Connectivity

Copyright 2017-2018 the original author or authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.138 hystrix-codahale-metrics-publisher

1.5.18

1.138.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
 * Copyright 2013 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1473577620_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-jar/com/netflix/hystrix/contrib/codahalemetricspublisher/ConfigurableCodaHaleMetricFilter.java

No license file was found, but licenses were detected in source scan.

```
/**
 * Copyright 2015 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1473577620_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-
jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisherThreadPool.java
* /opt/cola/permits/1473577620_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-
jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisher.java
* /opt/cola/permits/1473577620_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-
jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisherCollapser.java
* /opt/cola/permits/1473577620_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-
jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisherCommand.java
```

1.139 io-projectreactor 3.4.18

1.139.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (c) 2020-2021 VMware Inc. or its affiliates, All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/UnicastManySinkNoBackpressure.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxConcatMapNoPrefetch.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkOneSerialized.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/RetrySpec.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalManySink.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkEmptyMulticast.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/RetryBackoffSpec.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/ImmutableRetrySignal.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/ContextView.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Timed.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalOneSink.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinksSpecs.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkManyBestEffort.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/Retry.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalEmptySink.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkEmptySerialized.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/DelegatingScheduledExecutorService.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTimed.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkManySerialized.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2015-2022 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSink.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2018-2022 VMware Inc. or its affiliates, All Rights Reserved.

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoUsingWhen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxUsingWhen.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2016-2022 VMware Inc. or its affiliates, All Rights Reserved.

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCreate.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/EmitterProcessor.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBufferTimeout.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxGenerate.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxHandleFuseable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoIgnoreThen.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxHandle.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxReplay.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCreate.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkOneMulticast.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMapSignal.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSink.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMap.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SynchronousSink.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMapFuseable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/Schedulers.java

No license file was found, but licenses were detected in source scan.

/*

- * Copyright (c) 2011-2021 VMware Inc. or its affiliates, All Rights Reserved.
- *
- * Licensed under the Apache License, Version 2.0 (the "License");
- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at

*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/TupleExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFunctions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/adapters/package-info.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2019-2021 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelThen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/CoreContext.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2020-2022 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Sinks.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2002-2017 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/Nullable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/NonNullApi.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/NonNull.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2021 VMware Inc. or its affiliates, All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCacheInvalidateWhen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCacheInvalidateIf.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSwitchMapNoPrefetch.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2017-2021 VMware Inc. or its affiliates, All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/WorkerTask.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPublishMulticast.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context4.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/SchedulerTask.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/OperatorDisposables.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDelaySequence.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRefCountGrace.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCacheTime.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/CoreSubscriber.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFilterWhen.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFilterWhen.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDelayUntil.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Scannable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxExpand.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/PeriodicSchedulerTask.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context5.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/EmptyCompositeDisposable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Disposables.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindowTimeout.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxLimitRequest.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/DelegateServiceScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoExpand.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/StrictSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/InstantPeriodicWorkerTask.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/PeriodicWorkerTask.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/Queues.java

No license file was found, but licenses were detected in source scan.

Copyright (c) 2019-2021 VMware Inc. or its affiliates, All Rights Reserved.

#

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

#

<https://www.apache.org/licenses/LICENSE-2.0>

#

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

reactor.core.scheduler.ReactorBlockHoundIntegration

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2018-2021 VMware Inc. or its affiliates, All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/SchedulerMetricDecorator.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/MpscLinkedQueue.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/QueueDrainSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMergeComparing.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMetricsFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Traces.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMetrics.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMetrics.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/OnNextFailureStrategy.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ReactorThreadFactory.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMetricsFuseable.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2019-2022 VMware Inc. or its affiliates, All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/BoundedElasticScheduler.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2015-2021 VMware Inc. or its affiliates, All Rights Reserved.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnBackpressureBuffer.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ContextHolder.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context0.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BlockingLastSubscriber.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context1.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoJust.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Disposable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InnerOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ExecutorServiceWorker.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferStrategy.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/GroupedFlux.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/publisher/ParallelArraySource.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context3.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoRunnable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/ContextN.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context2.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxJust.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BufferOverflowStrategy.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (c) 2016-2021 VMware Inc. or its affiliates, All Rights Reserved.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* https://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSubscribeOnCallable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoOnErrorResume.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTimeout.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDetach.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFromPublisher.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxContextWrite.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCount.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSampleFirst.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ReplayProcessor.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSingleMono.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRepeat.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxZipIterable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSkipWhile.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoElapsed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoRepeat.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SignalPeek.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxScan.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/CorePublisher.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFirstWithSignal.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoRetry.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCancelOn.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/UnicastProcessor.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDelay.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/Tuple7.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRetryWhen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxLift.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ElasticScheduler.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindowPredicate.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSampleTimeout.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSubscribeOn.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDoFirstFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDefaultIfEmpty.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDoOnEachFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCallableOnAssembly.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWithLatestFrom.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ConnectableFlux.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelMergeSort.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelFlux.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoError.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelMergeOrdered.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelReduceSeed.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnErrorResume.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDoFinally.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDoFinallyFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BlockingMonoSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxEmpty.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFilterFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFlatMapMany.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/Scheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxIndex.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/DelegateProcessor.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFilter.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxGroupJoin.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelLog.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTakeLast.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelGroup.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/Tuple8.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoLift.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBufferWhen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/NextProcessor.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFirstWithSignal.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoOnAssembly.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoTimed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoUsing.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoAny.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSourceMono.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSourceMonoFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BlockingFirstSubscriber.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnBackpressureDrop.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFlatMap.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxPeek.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/DirectInnerContainer.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalFluxOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxScanSeed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoName.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ConnectableFluxHide.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoLog.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoTimeout.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelFlatMap.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRefCount.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/SpSCLinkedListArrayQueue.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/OptimizableOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxPublishOn.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSequenceEqual.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/GroupedLift.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDoFirst.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMapFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/Tuple4.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxPublish.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxConcatIterable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/SpSCArrayQueue.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxConcatMap.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRepeatPredicate.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnAssembly.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Hooks.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCollectList.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoZip.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoEmpty.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Operators.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCallable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxArray.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoLiftFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxConcatArray.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSource.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Exceptions.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelPeek.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFromFluxOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxAutoConnectFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoHasElements.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSkipLast.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSingleCallable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCompletionStage.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDeferContextual.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BlockingIterable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoBridges.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoTakeLastOne.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelMergeSequential.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSubscribeOn.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDefer.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindowBoundary.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelRunOn.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SignalType.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRetry.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ExecutorScheduler.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxNever.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSkipUntil.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSkipUntilOther.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelConcatMap.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxElapsed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxHide.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Signal.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelMergeReduce.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoHide.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalMonoOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMap.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDefaultIfEmpty.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Flux.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDetach.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSwitchIfEmpty.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPeekTerminal.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ConnectableFluxOnAssembly.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxErrorOnRequest.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalConnectableFluxOperator.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/LambdaMonoSubscriber.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSourceFluxFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelCollect.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelFluxHide.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/DirectProcessor.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoNameFuseable.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDematerialize.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSupplier.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelSource.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxGroupBy.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRepeatWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSwitchIfEmpty.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/LambdaSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCombineLatest.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDoOnEachFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFilterFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoRepeatPredicate.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFlattenIterable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBufferBoundary.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBufferPredicate.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMergeSequential.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindowWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFlattenIterable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTakeUntil.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoHandleFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoReduceSeed.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ImmutableSignal.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/Metrics.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSingle.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ParallelScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxLiftFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoHasElement.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/publisher/BlockingOptionalMonoSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDoOnEach.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTakeUntilOther.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCancelOn.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoAll.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCollect.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDoFinallyFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/SingleScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMerge.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSourceFlux.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/Loggers.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/SingleWorkerScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSource.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxError.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPeek.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoElementAt.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ConnectableLift.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Fuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDeferContextual.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBuffer.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoNever.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/DrainUtils.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoToCompletableFuture.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTakeLastOne.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxLogFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/publisher/FluxIterable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDoOnEach.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ConnectableLiftFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDematerialize.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxProcessor.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/function/Tuple6.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoMaterialize.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxFlatMap.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxZip.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/Mono.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoCallable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxDistinct.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxAutoConnect.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelFluxName.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxInterval.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxTakeWhile.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDelaySubscription.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/function/Tuple3.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxSkip.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxOperator.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/function/Tuple2.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoCurrentContext.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/SourceProducer.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxMaterialize.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/publisher/MonoSourceFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxSubscribeOnValue.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxNameFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelLiftFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDoFinally.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxErrorSupplied.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxRange.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxUsing.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDoFirst.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoIgnoreElements.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoLogFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoTakeUntilOther.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelDoOnEach.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/scheduler/NonBlocking.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxPeekFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelLift.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/InnerProducer.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/function/Tuples.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoRetryWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxSourceFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoCallableOnAssembly.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxDistinctFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoContextWrite.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/publisher/MonoDefer.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxDelaySubscription.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoProcessor.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoSubscribeOnCallable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/GroupedLiftFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/adapters/JdkFlowAdapter.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoStreamCollector.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/function/Tuple5.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoIgnorePublisher.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoDelayElement.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxFromMonoOperator.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoFirstWithValue.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxStream.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxSwitchMap.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/InnerConsumer.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoReduce.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoRepeatWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoErrorSupplied.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoFilter.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelFilter.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelFluxOnAssembly.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/SignalLogger.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxTakeFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/SerializedSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

jar/reactor/core/scheduler/ImmediateScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTake.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoIgnoreElement.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDistinctUntilChanged.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelMap.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/Logger.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxName.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxOnBackpressureLatest.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSubscribeOnValue.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BlockingSingleSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSample.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxJoin.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindow.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxPublishMulticast.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxLog.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoHandle.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/BaseSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxFirstWithValue.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoNext.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPublishOn.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPeekFuseable.java

1.140 dropwizard-metrics-support 2.0.28

1.140.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.141 micronaut-groovy 3.1.0

1.141.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/SetPropertyTransformer.groovy

* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/ConfigurationEvaluator.groovy

* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/GroovyPropertySourceLoader.java

* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/package-info.java

1.142 opentelemetry 1.14.0

1.142.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously

marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.143 apache-httpmime 4.5.13

1.143.1 Available under license :

Apache HttpClient Mime
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.144 javax-ws-rs-api 2.0.1

1.144.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

Version 1.0

*

1. Definitions.

o

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

o

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

o

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

o

1.4. "Executable" means the Covered Software in any form other than Source Code.

o

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

o

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

o

1.7. "License" means this document.

o

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

o

1.9. "Modifications" means the Source Code and Executable form of any of the following:

+

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

+

B. Any new file that contains any part of the Original Software or previous Modification; or

+

C. Any new file that is contributed or otherwise made available under the terms of this License.

o

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

o

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

o

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

o

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

*

2. License Grants.

o

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

+

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

+

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

+

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

+

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

o

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

+

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

+

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

+

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

+

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

*

3. Distribution Obligations.

o

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

o

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

o

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

o

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

o

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms

which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

o

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

*

4. Versions of the License.

o

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

o

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

o

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

*

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE

PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

*

6. TERMINATION.

o

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

o

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

o

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

*

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

*

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

*

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

*

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

1.145 tomcat 10.0.8

1.145.1 Available under license :

Apache Tomcat Migration Tool for Jakarta EE
Copyright 2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).
Apache Tomcat
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

- 1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.
- 1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
- 1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
- 1.4. Executable. means the Covered Software in any form other than Source Code.
- 1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.
- 1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
- 1.7. License. means this document.
- 1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.
- 1.9. Modifications. means the Source Code and Executable form of any of the following:
 - A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;
 - B. Any new file that contains any part of the Original Software or previous Modification; or
 - C. Any new file that is contributed or otherwise made available under the terms of this License.
- 1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.
- 1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.
- 1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included

in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and
- (b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).
- (c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.
- (d) Notwithstanding Section 2.1(b) above, no patent license is granted:
 - (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark)

Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the

Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter

hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

For the following Jakarta EE Schemas:

- jakartaee_9.xsd
- jakarta_web-services_2_0.xsd
- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- web-app_5_0.xsd
- web-commonn_5_0.xsd
- web-fragment_5_0.xsd
- web-jsptaglibrary_3_0.xsd

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has

sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"

BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and

may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Apache Tomcat Native Library

Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

This software contains code derived from netty-native
developed by the Netty project
(<http://netty.io>, <https://github.com/netty/netty-tcnative/>)
and from finagle-native developed at Twitter
(<https://github.com/twitter/finagle>).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)

This product includes software written by Tim Hudson (tjh@cryptsoft.com)

Apache Standard Taglib Specification API
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).
Apache Tomcat Native Library
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

This software contains code derived from netty-native developed by the Netty project (<http://netty.io>, <https://github.com/netty/netty-tnative/>) and from finagle-native developed at Twitter (<https://github.com/twitter/finagle>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

For OpenSSL:

LICENSE ISSUES

=====

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts.

OpenSSL License

```
/* =====  
* Copyright (c) 1998-2018 The OpenSSL Project. All rights reserved.  
*  
* Redistribution and use in source and binary forms, with or without  
* modification, are permitted provided that the following conditions  
* are met:  
*  
* 1. Redistributions of source code must retain the above copyright  
* notice, this list of conditions and the following disclaimer.  
*  
* 2. Redistributions in binary form must reproduce the above copyright  
* notice, this list of conditions and the following disclaimer in  
* the documentation and/or other materials provided with the  
* distribution.  
*  
* 3. All advertising materials mentioning features or use of this  
* software must display the following acknowledgment:  
* "This product includes software developed by the OpenSSL Project  
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)"  
*  
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to  
* endorse or promote products derived from this software without  
* prior written permission. For written permission, please contact  
* openssl-core@openssl.org.  
*  
* 5. Products derived from this software may not be called "OpenSSL"  
* nor may "OpenSSL" appear in their names without prior written  
* permission of the OpenSSL Project.  
*  
* 6. Redistributions of any form whatsoever must retain the following  
* acknowledgment:  
* "This product includes software developed by the OpenSSL Project  
* for use in the OpenSSL Toolkit (http://www.openssl.org/)"  
*  
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY  
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
```

* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.

* =====

*

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).

*

*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)

* All rights reserved.

*

* This package is an SSL implementation written

* by Eric Young (eay@cryptsoft.com).

* The implementation was written so as to conform with Netscapes SSL.

*

* This library is free for commercial and non-commercial use as long as

* the following conditions are aheared to. The following conditions

* apply to all code found in this distribution, be it the RC4, RSA,

* lhash, DES, etc., code; not just the SSL code. The SSL documentation

* included with this distribution is covered by the same copyright terms

* except that the holder is Tim Hudson (tjh@cryptsoft.com).

*

* Copyright remains Eric Young's, and as such any Copyright notices in

* the code are not to be removed.

* If this package is used in a product, Eric Young should be given attribution

* as the author of the parts of the library used.

* This can be in the form of a textual message at program startup or

* in documentation (online or textual) provided with the package.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the copyright

* notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

* notice, this list of conditions and the following disclaimer in the

* documentation and/or other materials provided with the distribution.

- * 3. All advertising materials mentioning features or use of this software
- * must display the following acknowledgement:
- * "This product includes cryptographic software written by
- * Eric Young (eay@cryptsoft.com)"
- * The word 'cryptographic' can be left out if the routines from the library
- * being used are not cryptographic related :-).
- * 4. If you include any Windows specific code (or a derivative thereof) from
- * the apps directory (application code) you must include an acknowledgement:
- * "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
- *
- * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
- * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
- * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
- * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
- * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
- * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
- * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
- * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
- * SUCH DAMAGE.
- *
- * The licence and distribution terms for any publically available version or
- * derivative of this code cannot be changed. i.e. this code cannot simply be
- * copied and put under another distribution licence
- * [including the GNU Public Licence.]
- */

Apache Commons Daemon

Copyright 1999-2021 The Apache Software Foundation

This product includes software developed by
 The Apache Software Foundation (<http://www.apache.org/>).
 Apache Tomcat
 Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
 The Apache Software Foundation (<https://www.apache.org/>).

This software contains code derived from netty-native
 developed by the Netty project
 (<https://netty.io>, <https://github.com/netty/netty-tcnative/>)
 and from finagle-native developed at Twitter
 (<https://github.com/twitter/finagle>).

This software contains code derived from jgroups-kubernetes
 developed by the JGroups project (<http://www.jgroups.org/>).

The Windows Installer is built with the Nullsoft

Scriptable Install System (NSIS), which is open source software. The original software and related information is available at <http://nsis.sourceforge.net>.

Java compilation software for JSP pages is provided by the Eclipse JDT Core Batch Compiler component, which is open source software. The original software and related information is available at <https://www.eclipse.org/jdt/core/>.

`org.apache.tomcat.util.json.JSONParser.jj` is a public domain javacc grammar for JSON written by Robert Fischer. <https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The `org.apache.tomcat.jni` and the `org.apache.tomcat.net.openssl` packages are derivative work originating from the Netty project and the `finagle-native` project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support The `org.apache.catalina.tribes.membership.cloud` package contains derivative work originating from the `jgroups` project. <https://github.com/jgroups-extras/jgroups-kubernetes>
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:

- `javaee_5.xsd`
- `javaee_web_services_1_2.xsd`
- `javaee_web_services_client_1_2.xsd`
- `javaee_6.xsd`
- `javaee_web_services_1_3.xsd`
- `javaee_web_services_client_1_3.xsd`
- `jsp_2_2.xsd`
- `web-app_3_0.xsd`
- `web-common_3_0.xsd`
- `web-fragment_3_0.xsd`
- `javaee_7.xsd`
- `javaee_web_services_1_4.xsd`
- `javaee_web_services_client_1_4.xsd`
- `jsp_2_3.xsd`
- `web-app_3_1.xsd`
- `web-common_3_1.xsd`
- `web-fragment_3_1.xsd`
- `javaee_8.xsd`
- `web-app_4_0.xsd`
- `web-common_4_0.xsd`

- web-fragment_4_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

Apache Tomcat JDBC Pool

Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

Apache Standard Taglib Implementation

Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

Apache Tomcat

Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

Apache License

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices and license terms. Your use of these subcomponents is subject to the terms and conditions of the following licenses.

For the Eclipse JDT Core Batch Compiler (ecj-x.x.x.jar) component and the following Jakarta EE Schemas:

- jakartaee_9.xsd
- jakarta_web-services_2_0.xsd
- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- web-app_5_0.xsd
- web-commonn_5_0.xsd
- web-fragment_5_0.xsd
- web-jsptaglibrary_3_0.xsd

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content
Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,

Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

- a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
- b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
 - i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
 - iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was

received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

For the Windows Installer component:

- * All NSIS source code, plug-ins, documentation, examples, header files and graphics, with the exception of the compression modules and where otherwise noted, are licensed under the zlib/libpng license.
- * The zlib compression module for NSIS is licensed under the zlib/libpng license.
- * The bzip2 compression module for NSIS is licensed under the bzip2 license.
- * The lzma compression module for NSIS is licensed under the Common Public License version 1.0.

zlib/libpng license

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including

commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

bzip2 license

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.

jseward@acm.org

Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
 - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the

Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data,

programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement

under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for NSIS, expressly permit you to statically or dynamically link your code (or bind by name) to the files from the LZMA compression module for NSIS without subjecting your linked code to the terms of the Common Public license version 1.0. Any modifications or additions to files from the LZMA compression module for NSIS, however, are subject to the terms of the Common Public License version 1.0.

For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus

claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and
- (b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).
- (c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.
- (d) Notwithstanding Section 2.1(b) above, no patent license is granted:
 - (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third

party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark)
Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and
- (b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).
- (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.
- (d) Notwithstanding Section 2.2(b) above, no patent license is granted:
(1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your

Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each

version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the

Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

1.146 okhttp-logging-interceptor 3.12.12

1.146.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

```
* Copyright (C) 2015 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1294625109_1649800590.01/0/logging-interceptor-3-12-12-sources-
jar/okhttp3/logging/HttpLoggingInterceptor.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1294625109_1649800590.01/0/logging-interceptor-3-12-12-sources-
jar/okhttp3/logging/LoggingEventListener.java
```

1.147 asm 7.2

1.147.1 Available under license :

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.148 appdynamics-java-agent-api

4.5.13.27526

1.148.1 Available under license :

No license file was found, but licenses were detected in source scan.

<div class="aboutLanguage">Copyright 2019 AppDynamics Inc. All rights reserved.</div>

Found in path(s):

- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/overview-tree.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/package-tree.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/ExitCall.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/deprecated-list.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/impl/NoOpTransaction.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/Transaction.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/instrumentation/sdk/logging/package-tree.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/instrumentation/sdk/logging/package-summary.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/AppdynamicsAgent.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/instrumentation/sdk/logging/ISDKLogger.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/EventPublisher.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/impl/package-summary.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/EntryTypes.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/overview-summary.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/constant-values.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/package-summary.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/index-all.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/ExitTypes.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/help-doc.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/impl/NoOpExitCall.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/impl/package-tree.html
- * /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/MetricPublisher.html

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (c) AppDynamics, Inc., and its affiliates
 * 2018
 * All Rights Reserved
 * THIS IS UNPUBLISHED PROPRIETARY CODE OF APPDYNAMICS, INC.
 * The copyright notice above does not evidence any actual or intended publication of such source code
 */
```

Found in path(s):

```
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/impl/NoOpTransaction.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/EumDelegate.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/impl/NoOpExitCall.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/AppdynamicsAgent.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/ExitCall.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/EventPublisher.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/MetricPublisher.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/Transaction.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (c) AppDynamics, Inc., and its affiliates
 * 2019
 * All Rights Reserved
 * THIS IS UNPUBLISHED PROPRIETARY CODE OF APPDYNAMICS, INC.
 * The copyright notice above does not evidence any actual or intended publication of such source code
 */
```

Found in path(s):

```
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/bootstrap/NoOpTransactionDelegate.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/ExitTypes.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/EntryTypes.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/bootstrap/IApiBootstrapFacade.java
* /opt/cola/permits/1337070300_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-
jar/com/appdynamics/agent/api/bootstrap/IApiTransactionDelegate.java
```

1.149 asm-commons 7.2

1.149.1 Available under license :

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.150 dropwizard-jersey-support 2.0.28

1.150.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.151 latencyutils 2.0.3

1.151.1 Available under license :

```
PK0P=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-sources.jarg4G7C{ F-`DutCD !QG7Dwy>9u:g?{]ic`pqq
_Uh*C5!Jz`p4w{HIE'1z>O<(X
IRq8>H+Y/^*xBZ8)LX1~11_fg7s{{`n`[W_.;2|csqpu9x2IETH=a~v<\.0'i>/d1!4F&U5xV~VBEGA?)\O7pk"i)K3 )
.RSscs7,_D/_z,:*^+;J~1XE3.<%wt_3[5h]v7S,Dw5bZLI=C3tMDVrJLn9?!S,Shthp
'sn}S`o [~ {:8@SI7R$
1f+U7L,` ,$Ts,VIow^Mk0p_5S#[n.A **h"v\NK:qvO< jRT2'eC@Br-KuY.czg]~\&VwiJ6W]Z>0E;zjs~OG_
g+8`?<$O{7@-A'QR&+Uz.+GIL8UODo9wTsV"yCYjI iWmz^'pkJ'pd^V{NjW)x|U#
&V~/G1{JJ`ySR]gag{M}OL>0av
"nJ9${,VdS} .~E8[MNbW/
kN.Emkhuo~)SY_[3p^Pu#,`c
]Jcoig;C^CxJ6LY!sN~|~B3TKFxAi#g@Z@%glo:L$~A }rno$Opv^$C&=Ut+AU FF[7U-17{a]Mc
bDcK*B^*HC:>kfIV5fZu,Tt<j
JsmXI49y[iu"6;`Unf&9OnF9i6h;tXhM())wb_UJqiZ_:)1&|,)P(~1wV,^dU_V+m9kmKw\Lj c:47:@U3^>/-
lu58cxw_?},|2^Re+ Ao\%IAIeJ02vB;iMASvF}
Ht|a8Q>}g6%2%~k{2##Hs-.7ZY%k*= 0{:_?d:#"8m"sq(DEZR#T?N%kx~IHNvJK
[Kz2n'JI.I8sX)U4vXcej},4{%tEgiF9J DL$j,(Onb)cJY)A2N&-dRrE/3D2OLAHRR=*+bWQgbE_UG{Y-
$&6rX@_HA" "k /H(VO9C9O%FZE6{F BtKDK1zD%u28J<kI+p%HJvQH|q
S.YCm<83=Fn8p $S2EDP$"u4x"ym
ZN!cS<a8,Iyz7KIw{{*xO#B\-*}mD $RGR;)Fp0o0V00B#c=4skVTY04P@c4gqO*82myazgQ<_/,*Zm_M|e.
nKbdE ^O^yTd/$Vu|=Q HJJ_k0YzH+;+Wb=u`xm
FFbkCs<dJ%_b ht&Sq:)?*TfEe{)E% @mUxT8W}y3 Z8BEFM}tEa7b,gKMUAU'07wm8AQ-+)
D\y:=GlmiN.rh;o$Tsqmv}j^m}C>qT?<+^3g5&'Ac%/ei3hq9R = Npo<.Guc{^LmM9^o=!%7I%?^4cd9Hv!-
HN{2+t2Un{&sIBsfw<ov_I<vcfF
$XZE5zAocaf!"RUy6QRabLDkT)
Ce0K_ JW@"cEo,Z~Oru#U0NNymq}y56@HXl<_D 6s9:/`EZ91JFR"u:tu }/ksKanG`X2
```

Nk>!wn!J'wu+,liM7 e&V|b
XQU{3},6:BZa852ES\$fk\s'F"*w<R47YXv'Z+DXsE1[5Kxcps`aK1dm!p~kSsct,Xo~j\$Yn]RYA;D1y-
q/_\UP<ujCQ9/V@OiXj>].+ZV_]Mo/^]?d*NPX Ns![zEvb{P0"5".?H3N1}QZ{,4X{.Lvn=<n5t;1
'}7e/@q|
EF2@wr'Hs>|J{h2hI,-oIfU_bF;60EaGd/uV./+WJ(?>txuJhTK^G}Hxwd*DGi"mU(QVN-
NXWUGJaSy3^JSTh#M^ngogsJ k+org]Thcr{+vIDE=kL3>Fr~"VH4~(^ P/dSRA\H-mbzdckf{`-
3amB~eQ4\$WKg5F#*=Qx&% W`d
7=
2&Ka L6klmrtKG3'{hOX[D@"6??&\$AZKjVBYIN.||6~k}5{W~onI=RjsvXa|YF1+~+a.Yhhj^8 A
({#.][v!sR'5<#.^Q~8zUFt#>]l0fvDyTV_v#,x\W
Q;
mmWfw|&+G'iR_VJ: ~B9_P6>oFX!)~u,?zPKDcPK9ZP6spring-cloud-netflix-sidecar-2.2.2.RELEASE-
sources.jarzex]9c1ffff333C113cq3_` }GVRTz\$A`r}
AW4uo]ZDI #J/- QTU`er,SHrbQ%Qb;p7d
acm6}0o/Fc_H`_S!b0_lu;0K?E~s'8~D-x3sTV\|f@jP=AKlgNi
}bIjw:FhPf:HJ/+rTo*WDqnG(LJ\$JLj`eE#5_qfCvO)Tdn7L`T'=Brl4;yr.}#Ebsu<Eke@
O'Q#=#TQ DKg!foY~i"AaL,#"m2F[C~#pj0~%K'ik^RQpUvdpWQG[Uu5Y)K(RT@yq`\$-4a LIHgfBRE&9h-
e1\Fa~i%+\MtW*+Blzi-p7&Q1v'4U{roR d[lg~65bSS{-dBU"7)7Enmi{K&6Lum(^)c7KU
a2mMbW+Ccs(/0>"~e8@ @llpu+%vgNhDxX%
Tf*"8f*f(a[Xn@\$ { YQa/=HHHb,WAG
p>a66ff,iz0D)d|_7}i+{TFjCp}WX&k1v-I tst]B <)cri!!;D4+
%!F9\DaP7KF*nn >`
HOM-_/;ta?|w^JzC]`@!VaN=\$ODc%*CsI
,wc#HH-
`Z7>3CrZR\$qwCm'/p]R!/)r%?Z]Wg^zm{. {!HR@:,D}&k'1cU6/h}(5VtAVeE4vM.<%&<|+93UUIc2t~Ig#,YiA9H
/-h`p^i8.UIVnF|x-&e<O?dAtHCDj"
c`c<seJMS\$*jKr?q&cW AY: XsU/JB!5(yADY)@
e@Cj
J/J)-x53mNxHZi
7rxGwezU'mWl{T4CZd"zpphU`jU
=3X[UtteFhvE+]U+V;]cK?RM(9W5A(m9jBkQ~sN'yqg"jj9K)thHJ1NDo\$z3n:IiAjh%ACWj;
-mj^
axurii1k/VVtPY]0|<
w\5g.lj-N)V<:y%t4c9 RNS]3(`#dcmlfh`fc{\,W_NTDo(%EQD2i=W_QH"_N%|IC~F+S
zj7i(AvyPrIe)7*fNf4VwJuhA2,rS~\$q\$ywuWX(#B`D==>*/9Nt*1d{ OApPd/pdPb@#@8dUd)Y-xQht-
RCU@^5'3NW{A8R f"0]=Eu\C]S\$aIQ=<v8I80jHOeO.l/Y\$E;Eh8%6J~Q!~9_#h?h@/
4G&mZX3H>v. X98"MBb9 [,\B]tUhMu@EldpXM*;#C[{>n + t;l`<SjpZwNsHeV@o:peR^!@:olx?K]
t
>tc>ILD2C2H+W,D<g5E|N-Ve5 &M<Pc*80SB7Ox)Dg3#/G0f/e5
@ntau1;n}L
.-&jzSy*q^1G!g&S
q"v{Bltz4od^ZrIUq`fbo3GCp^:8x+FRC,uQriTL[xSO2'Z[0+s\4*#>SGzM]l].->\$905E]3b)8Us9y1MjLk}Gq-
W|">%V
Snk87]U\$Mv{m1{<.:z;17}W8\$8UCs&SN4mc.F(@BH\$K #8G#g9GD@T3#?LYoD9
h;GyW%>5pNk;S0iyFbrS-jp[N8Aq]E3d37gkbnOy3 Q_v9\q&2{9`H*,/c]F6dyT"x>Nwb
kP\h,ho7r|7h:br.)o=U
3jpdpjBS>6;-)k50|!
dym:=& !#p[hz=^?*w

:bLWc-C (z\$SK8OLjJ4:\e\4*U*YIEI,?"u'mKQ)|C7)bg{-sv
2#~YSR "QJ'
LZ]dJ5y;6?6Y)Q+EkKW#TN--Q3dxmg|PIIO0m"ZG%>btV\%?J,MsL^5N31):^f&05CD
8eDgKt"_U#H?E-)YE
4'v61gStI7k\$vw^?dQ
g9*B,RYEC0}6I".,NY^yl/W;ji7t1-GdTyK~1mQa.#1X)ayorAMJK}#Q9M~J8\$'+LOIm#
{scW7F/[l0xxB?!(Kt?qpkuh\$
o7[4.@rDQ{Bc(U[-b;zw" |(\$x=0@[xq:b#V65L!IEk<qOuQO%m
gDDwY#x+]C=odD?W8Hp+o'noI&?I#,{ "m}z*A4/O>z5J@4Wf,h\twk3D#CM1O&ND{blCPV|P)^Ds'A&lom^TC7
C>e,O|K@.olsoR@cNR~~YKuYV~*\$cW2dUCtdap/TzF

LN[pY-bFv9UJ3nbVzd8-3/:dhgqF5)#G/1>fkuV{ |Hp&2Vf4NOw%FiU5.0}|4oBc Wn;'&SU2HT@Tg*42` }=mW Yb
;hKs~MU<2 eIbaU:Lpgyc"svh>*bDW2TxiHrcBQU1;&QA`>l8
/KT?pAX;^[hmK y>7??4C[,ecg)`kkifY:
{<,mH>of>Pv9%EH4_VSaqx3S.s;lji2?Ci1-IH9N~F)bH8`p`|IKZ;(GB0^xt
RDS23v+iCL#F>Cvkqeq\$
gcj%
<Tze"&-7\$qm E6Z##.#k>|6S9/c3Wu+Mx44Rbl9dJ6)T=8yDl2g
fSL>5M_<{:3S9Y%zmvRrhde;)T>[+|=|O_-liv-65 o#wm8'c"7/cGjs(9yO5QkD(!9{/0
{m\NXAtJCi!uc"<B<IP.DAaY/+;y9MmTJ
i>SPB2CuTR{4K\$p8?V 7}"
/jdD;^ c^KI|+}?Y?T0hHDj*J{U\$VA&#^N w%*MWa
Xloy9-aR.[lep&(4nK%EEu_Yk!Y^*TuOy0 &iJ9a|?\$
mUJrlf1gd<-T~~tz{^bbxTRZbTv~xNrx~JvHv|BrDV0,CE
+6=^}NrF\Rzjzjt<L7\h6RfX=;XZ2mYt
FrE|]k(!m;D;xtAK9#w<=@*>S\$R*^:qD8,~3A=G*Bj(6ePy~R%
0\$^I]2]>/"(sE-E:~xNEx)
;YZtk%jTp[XO5*p4,b@n)gye+S[&GF]zD!|\2r5|xR9x^XDvL xH%e(pExM)b-(4jWY#;>.r8&MJy#hD+|sF"2uQ
|H"bX9KZz<6J?~liW* Y_o|Fp2NEQ|c\$)0D9mIhW{` [h x(v0_a]5Tqn:\$k|LxPWO
P~@lh>Zz~KE9U0sU* }l>qdF@ :%
\$kf phCU#:%aohb5h
sm7iCY/[64::w/aRM.-c4szto@`onq?J?zQANROBtptz8qp5H-g+]
+mVg-@W4MHWnv\$]kCxm `qB[8eLiU0mnMy4g&`
^Qx
vd*yC5S~--+ |2 _>\$Z5:xz/i.]{p8fM78m}kVO8PHeMGTi:~\$0JHcFyaq2&<~
jg4ylkX"+*z9{L
o(B|7{|{h-ICc|s6zJVE.3RK`pDIL.RG6#swX+GBuRg5mlM;[IF]DJ#QZuU=G m\06WaLh3SZh _`SA8va\$/c)`6
@h1]C
.!=
"wj\5^XW6|OV0|};^k3i^
9ws_Iq:D=g '!PX8{6Rh8*I|[Tv1^8!c/K1g3Nzj]_pSER"%F_B7F}mr"oS/JPPE:)VFXNk'47p4ZUK4

CA=6JjVHj2Lv[Gy(? "x
Mi0p=M=r)wO[YPUD1% rkX4yMc
k`WR/ABV+qKP?4Z~&`J5F?./;QjxYg7!"q8qMk&p-.Lq3aqolASrz#b"Koq3:7Ky0WZ6D+IB\UPU2j;\$LVs^m-
+ETHfF

A@i{nVl\BCS!srY rq25>rgYS3\$`?kLjI>{GJwwqS<s9thIWR8_aHD]Zs },[1`uE1H4zG5.2khKPx]/g{?

k1B(P^%*Vmo?X,*r;*\$~9[B\jr~0a`F1P0ry\$^Qa^?VL{ljcdPzKf: v?=oqM~@RTob(aO3i
[GJ,gNWA6La7.QcBz1" 451'cliDC`i|8[Ay0(.8{_)xO`5
4R,r]QNo >UYT<
r? =3LaAnfO"Zo;lmu?.5z+bYhX %
/"7J|C|8qoHjW7Ju~.{ fP 'ad mw7OiG|nsi
u~2r@_3v [Fg@.Nmjino\$'+q\$}4Wae3r\ZK
[Z6QXf+.s~Y9Wz`e9%)OnI.-VZHM^t:r*ppkMd# Y!Nn6fxs/
a23pT]sO,rfF;&gg|dL)BsZ{mtwciPt=+[5hmU\$A@ 9t*bSI?@IbO_!`?! G/qU'w><00` aEw`?|Nlu ;~%~
WFwm0G;:_
w>Q6W>
0?yU|fi7W.~w\$\$8oh~*TPK'&2PK0PDc=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-
sources.jarPK9ZP'&26spring-cloud-netflix-sidecar-2.2.2.RELEASE-sources.jarPK=

1.152 scala-logging_2.12 3.9.2

1.152.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.153 kotlinx-coroutines-bom 1.5.1

1.153.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2000-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License (MIT)

Copyright (c) 2016 Parker Moore

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
=====
== NOTICE file corresponding to the section 4 d of      ==
== the Apache License, Version 2.0,                    ==
== in this case for the kotlinx.coroutines library.     ==
=====
```

kotlinx.coroutines library.

Copyright 2016-2019 JetBrains s.r.o and respective authors and developers

1.154 scala-parser-combinators 1.1.2

1.154.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Scala parser combinators
Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (<https://lamp.epfl.ch/>) and
Lightbend, Inc. (<https://www.lightbend.com/>).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.155 micronaut-micrometer 4.3.0

1.155.1 Available under license :

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.156 jackson-module-afterburner 2.13.3

1.156.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components (as well their dependencies) may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

This copy of Jackson JSON processor `jackson-module-afterburner` module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Additional licensing information exists for following 3rd party library dependencies

ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.157 hk2-api-module 2.6.1

1.157.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License

(if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add

their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors,

compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing

version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to

make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers

to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked

independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: <https://projects.eclipse.org/projects/ee4j.glassfish>

Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/glassfish-ha-api>
- * <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- * <https://github.com/eclipse-ee4j/glassfish-shoal>
- * <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- * <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- * <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
- * <https://github.com/eclipse-ee4j/glassfish-hk2>
- * <https://github.com/eclipse-ee4j/glassfish-fighterfish>

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

1.158 metrics-jetty 4.0.5

1.158.1 Available under license :

Apache-2.0

1.159 metrics-utility-servlets 4.1.29

1.159.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.160 jackson-xc 2.13.3

1.160.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

This copy of Jackson JSON processor `jackson-module-jaxb-annotations` module is licensed under the
Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the
specific rights regarding derivative works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.161 netty-transport-native-unix-common

4.1.73.Final

1.161.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2021 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/io/netty/channel/unix/SegmentedDatagramPacket.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/io/netty/channel/unix/DomainDatagramChannel.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/io/netty/channel/unix/DomainDatagramPacket.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/io/netty/channel/unix/DomainDatagramSocketAddress.java

No license file was found, but licenses were detected in source scan.

~ Copyright 2016 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:

~

~ <https://www.apache.org/licenses/LICENSE>

2.0

~

~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2020 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/netty_unix.c

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix.h

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_jni.h

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_limits.h

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Limits.java

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_util.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2015 The Netty Project  
*  
* The Netty Project licenses this file to you under the Apache License,  
* version 2.0 (the "License"); you may not use this file except in compliance  
* with the License. You may obtain a copy of the License at:  
*  
* https://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT  
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the  
* License for the specific language governing permissions and limitations  
* under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_errors.h
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_socket.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-

jar/netty_unix_errors.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_socket.h
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/Unix.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2018 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/netty_unix_buffer.c
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1290493558_1647560271.25/0/netty-transport-native-unix-common-4-1-73-final-sources-
jar/netty_unix_buffer.h
```

1.162 netty-transport-native-unix-common

4.1.76.Final

1.162.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
```


*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/IovArray.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/UnixChannelOption.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/Unix.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/package-info.java

No license file was found, but licenses were detected in source scan.

<!--

~ Copyright 2016 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:

~

~ <https://www.apache.org/licenses/LICENSE-2.0>

~

~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.

-->

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/UnixChannelUtil.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_jni.h

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2022 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/IntegerUnixChannelOption.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/GenericUnixChannelOption.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/RawUnixChannelOption.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2018 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/Buffer.java

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_buffer.c

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_buffer.h

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2020 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix.c

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix.h

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2021 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

- * License for the specific language governing permissions and limitations
- * under the License.
- */

Found in path(s):

- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainDatagramChannel.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainDatagramPacket.java

No license file was found, but licenses were detected in source scan.

/*

- * Copyright 2015 The Netty Project
- *
- * The Netty Project licenses this file to you under the Apache License,
- * version 2.0 (the "License"); you may not use this file except in compliance
- * with the License. You may obtain a copy of the License at:
- *
- * <https://www.apache.org/licenses/LICENSE-2.0>
- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
- * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
- * License for the specific language governing permissions and limitations
- * under the License.
- */

Found in path(s):

- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_filedescriptor.h
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainSocketAddress.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/Socket.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainSocketReadMode.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/Errors.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
- * /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_socket.c

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_errors.c
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_socket.h
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_errors.h
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannel.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/netty_unix_util.h
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-2-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-

```
2-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-
2-jar/netty_unix_limits.h
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-
2-jar/netty_unix_util.c
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-
2-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1340031451_1654618462.9426582/0/netty-transport-native-unix-common-4-1-76-final-sources-
2-jar/netty_unix_limits.c
```

1.163 couchbase-java-sdk 2.7.18

1.163.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<Bundle-License>http://www.apache.org/licenses/LICENSE-2.0.txt</Bundle-License>
```

Found in path(s):

```
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/META-
INF/maven/com.couchbase.client/java-client/pom.xml
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2020 Couchbase, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/Coordinate.java
```

No license file was found, but licenses were detected in source scan.

```
/**
* Copyright (c) 2017 Couchbase, Inc.
*
```

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/TransparentReplicaGetHelper.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2016 Couchbase, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultOnPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonLongDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/MatchPhraseQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/auth/Credential.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeInsertPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/error/subdoc/MultiMutationException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultUsingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/LRUCache.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/TranscoderUtils.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/N1qlQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/UsingWithPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/N1qlQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/OffsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/ViewDoesNotExistException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DesignDocumentAlreadyExistsException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/AsyncViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/ViewRetryHandler.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/AsyncBucket.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/OnElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/MatchAllQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/IndexReference.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/AbstractTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultUpdateSetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultOnPrimaryPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdateWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/subdoc/AbstractByteArrayFragmentTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/Repository.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/util/OnSubscribeDeferAndWatch.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultHintPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/Stale.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/DropIndexElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/OnPrimaryPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/PathInvalidException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/SelectElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/QueryStringQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/AsyncN1qlQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/DefaultAnalyticsQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/LetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeUpdateWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/facet/TermFacet.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/DefaultN1qlQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/NumericRangeQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/ClusterApiClient.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Select.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/IndexNamesElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/JoinType.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/DateRangeFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonArrayDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonStringDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeUpdatePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/PrepareStatement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/bucket/AsyncBucketManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/AbstractClusterApiClient.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/RequestTooBigException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/env/CouchbaseEnvironment.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/LegacyDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeKeyClausePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Index.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/impl/DefaultSearchMetrics.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/DocumentFragment.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/DefaultTermFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/PersistTo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultAsPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/ViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/BucketType.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/PrefixQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/json/JsonNull.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/SpatialView.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/MergeDeleteElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/PathMismatchException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/retry/RetryWithDelayHandler.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/RawJsonTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultLimitPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/Element.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/datastructures/collections/CouchbaseArrayList.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/ArrayFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/MatchNoneQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/auth/CredentialContext.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/SubdocHelper.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultCreateIndexPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/facet/SearchFacet.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/features/Version.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/features/CouchbaseFeature.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/PropertyMetadata.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/AsyncLookupInBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/LettingElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultKeysPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/impl/DefaultSearchStatus.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultUpdateUsePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/View.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/DefaultN1qlQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/DefaultClusterManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/HavingElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/IndexNamesPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/datastructures/ResultMappingUtils.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/DateFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/SearchStatus.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/LookupSpec.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/document/json/JsonArray.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultBuildIndexPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/WithPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/util/SearchUtils.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/SearchMetrics.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeInsertPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultLetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/InitialInsertPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/SerializableDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Delete.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/retry/Retry.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultUpdateSetOrUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/auth/ClassicAuthenticator.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/datastructures/collections/iterators/JsonArrayDocumentIterator.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/DocumentTooDeepException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/Sort.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/BinaryDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/SpatialViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeInsertWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/AsyncSearchQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/BucketDoesNotExistException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/N1qlMetrics.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/subdoc/AbstractFragmentTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultView.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/error/CouchbaseOutOfMemoryException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DurabilityException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeUpdateSetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/DefaultAsyncBucketManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/Cluster.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultInitialInsertPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/AbstractFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/AsyncViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/RestBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/SpatialViewQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/StringDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/AsyncRepository.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/UpdateSetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/ReflectionBasedEntityMetadata.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/ConditionalFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/subdoc/JacksonFragmentTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/facet/DateRangeFacet.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/annotation/Id.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultReturningPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/KeysElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/SetElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/RepositoryMappingException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/Expression.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/TypeFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/path/DefaultMergeKeyClausePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/SubdocOperationResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/Form.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeSourcePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/ClusterInfo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/Transcoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/IndexElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultSpatialViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/WithIndexOptionElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultJoinPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/AbstractDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/BucketManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Upsert.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/MergeInsertElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/MatchQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/LettingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultOrderByPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/SelectPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/AuthenticatorException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DocumentDoesNotExistException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/UnsetElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/TranscodingException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/CannotRetryException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/LookupInBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/error/TemporaryLockFailureException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/datastructures/collections/CouchbaseQueue.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/IndexAlreadyExistsException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/DocIdQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/WherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/DefaultAsyncClusterManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/IndexesNotReadyException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/SimpleN1qlQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/N1qlQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/LimitElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/OnPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultUsingWithPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/FacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/ObjectFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/SearchConsistency.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdateSetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DocumentAlreadyExistsException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultSpatialViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/DateRange.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/PreparedN1qlQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/UpdateUsePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JacksonTransformers.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeDeleteWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/datastructures/collections/CouchbaseMap.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/FtsConsistencyTimeoutException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/Bootstrap.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/TermFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/consistency/ScanConsistency.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/impl/DefaultSearchQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdateSetOrUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeDeletePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/BuildIndexElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/rawQuerying/RawQueryExecutor.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/TemporaryFailureException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/BinaryTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Merge.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/CouchbaseCluster.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/BooleanFieldQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/PhraseQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/CouchbaseAsyncBucket.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/impl/DefaultSearchQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonArrayTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonDoubleDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/GroupByPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/TermQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/NumberTooBigException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/functions/MetaFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/ReflectionBasedPropertyMetadata.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/AsyncRestBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/SelectResultPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/env/DefaultCouchbaseEnvironment.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/MutationSpec.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/retry/RetryBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultIndexNamesPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DesignDocumentDoesNotExistException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMutateLimitPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultGroupByPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/AggregateFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/SearchQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/rawQuerying/AsyncRawQueryExecutor.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/LegacyTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/Alias.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/retry/RetryWhenFunction.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/DefaultClusterInfo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/JoinElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/UnnestPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/EntityConverter.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/PathExistsException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/Collections.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/PathNotFoundException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/element/OrderByElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/ViewQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/facet/NumericRangeFacet.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/EntityDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/RestBuilderMarker.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/ConjunctionQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/FromPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/RegexpQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/ViewQueryResponseMapper.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeDeletePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/DefaultEntityConverter.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/util/IndexInfo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/NumericRangeFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/ReturningPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/WherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/hits/HitLocation.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/subdoc/FragmentTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/hits/HitLocations.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/MutateInBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Statement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/ConnectionString.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/core/N1qlQueryExecutor.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/N1qlParams.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultAsyncViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/error/BucketAlreadyExistsException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeInsertWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/AsyncSpatialViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/NumericRange.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/CouchbaseRepository.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/StringTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/AsyncSpatialViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/Bucket.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/api/AsyncClusterApiClient.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/GroupByElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/impl/DefaultAsyncSearchQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/ClusterManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/ViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/HintPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/UnnestElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/Document.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultHavingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/AsyncCluster.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/ReplicaMode.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonDoubleTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/Blocking.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/DefaultAsyncN1qlQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultAsyncSpatialViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/path/InsertValuesPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/NodeLocatorHelper.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/InsertValueElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultInitialUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/UpdateSetOrUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/CreateIndexPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/auth/Authenticator.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/ParameterizedN1qlQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/BooleanQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Update.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/DefaultAsyncN1qlQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/Path.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/clause/package-info.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/NumberFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/OrderByPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/event/consumers/BucketConsumer.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/Insert.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/NestElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMergeUpdatePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/PreparedPayload.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/CannotInsertValueException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/JsonBooleanDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/WildcardQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/element/LetElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/StringFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/HighlightStyle.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/HavingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/AsyncN1qlQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/DefaultBucketManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/SerializableTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/MultiValue.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/InsertSelectElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DesignDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/ComparisonFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/SpatialViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/NamedPreparedStatementException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/ReplicateTo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/AbstractFtsQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultLettingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/DefaultBucketInfo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/FtsMalformedRequestException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultSelectPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/CASMismatchException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/CouchbaseAsyncCluster.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultMutateWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/json/JsonValue.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/UpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/element/ReturningElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MutateLimitPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/DigestUtils.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/AbstractCompoundQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/DesignDocumentException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultFromPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/DefaultNumericRangeFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/InitialUpdateUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/DefaultDateRangeFacetResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/HintIndexElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/AsyncClusterManager.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/WhereElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/IntersectElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultSelectResultPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/CouchbaseAsyncRepository.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DeleteUsePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/datastructures/collections/CouchbaseArraySet.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/QueryExecutionException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultNestPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/RawJsonDocument.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultAsyncViewResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonStringTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/MutationState.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/subdoc/AsyncMutateInBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/search/queries/DateRangeQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultAsyncSpatialViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/UsingPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeSourcePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultOffsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/AbstractN1qlQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeUpdateSetOrUnsetPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/SearchQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/ExceptElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/JoinPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/UnionElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/DefaultBucketSettings.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultDeleteUsePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/IndexType.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/BadDeltaException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/BucketInfo.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultInsertValuesPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/BucketFlusher.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/DefaultUnnestPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonLongTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/AbstractPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/BuildIndexPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/FlushDisabledException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/hits/DefaultHitLocations.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/cluster/BucketSettings.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/DocumentNotJsonException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/AsElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/PatternMatchingFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/queries/DisjunctionQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MutateWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/ValueTooDeepException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/IndexDoesNotExistException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/clause/UpdateForClause.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/OffsetElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/MergeDeleteWherePath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/AsPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/package-info.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/mapping/EntityMetadata.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/datastructures/MutationOptionBuilder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/UsingElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/SearchQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/SerializableStatement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/LimitPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/OnError.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/CouchbaseBucket.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/annotation/Field.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultWithPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/PathTooDeepException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/dsl/element/FromElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/document/json/JsonObject.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/ReplicaReader.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/result/facets/TermRange.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/view/DefaultViewRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/NestPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/JsonFunctions.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DropPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/transcoder/JsonBooleanTranscoder.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/DefaultAnalyticsQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/index/DefaultDropPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/subdoc/SubDocumentException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/KeysPath.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/SelectType.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/functions/Case.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/InvalidPasswordException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2017 Couchbase, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/queries/GeoBoundingBoxQuery.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AsyncAnalyticsQueryResult.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/SearchSortField.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/FieldType.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/SimpleAnalyticsQuery.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsQueryExecutor.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/auth/PasswordAuthenticator.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/document/ByteArrayDocument.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/cluster/UserRole.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/queries/TermRangeQuery.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/transcoder/ByteArrayTranscoder.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/DefaultAsyncAnalyticsQueryRow.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/cluster/AuthDomain.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsQuery.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/SearchSortId.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/SearchSortScore.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/cluster/UserSettings.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/subdoc/SubdocOptionsBuilder.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/FieldMode.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/queries/GeoPolygonQuery.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/SearchSortGeoDistance.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsQueryResult.java
- * /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/FieldMissing.java

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/error/subdoc/XattrOrderingException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/DefaultAsyncAnalyticsQueryResult.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/queries/GeoDistanceQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsMetrics.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/search/sort/SearchSort.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/error/MixedAuthenticationException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AsyncAnalyticsQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/cluster/User.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsQueryRow.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/analytics/AnalyticsParams.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2018 Couchbase, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/cluster/CompressionMode.java

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/bucket/api/Exists.java

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/transcoder/crypto/JsonCryptoTranscoder.java

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-jar/com/couchbase/client/java/error/AuthenticationException.java

* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-

jar/com/couchbase/client/java/query/N1qlProfile.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/HashSide.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/util/AnalyticsIngester.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/AnalyticsDeferredResultHandle.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/error/FtsServerOverloadException.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/ParameterizedAnalyticsQuery.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/AsyncAnalyticsDeferredResultHandle.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/api/Mutate.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/element/NestedLoopJoinHintElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/repository/annotation/EncryptedField.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/api/Utils.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/search/core/SearchQueryExecutor.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/query/dsl/path/HashJoinHintElement.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/DefaultAnalyticsDeferredResultHandle.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/analytics/DefaultAsyncAnalyticsDeferredResultHandle.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/cluster/EjectionMethod.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/auth/CertAuthenticator.java
* /opt/cola/permits/1341639974_1654810046.229619/0/java-client-2-7-18-sources-
jar/com/couchbase/client/java/bucket/api/Get.java

1.164 jackson-dataformat-csv 2.13.3

1.164.1 Available under license :

Apache-2.0

1.165 jersey-ext-entity-filtering 2.35

1.165.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

* License MIT (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://angularjs.org>

* Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

* License: all the source code provided by AOP Alliance is Public Domain.

* Project: <http://aopalliance.sourceforge.net>

* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

* License: Apache License, 2.0

* Project: <http://beanvalidation.org/1.1/>

* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors

* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

* License: Apache License, 2.0

* Project: <https://beanvalidation.org/>

* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7

* License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

* Project: <http://getbootstrap.com>

* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

* License: Apache License, 2.0

* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

* License: Apache License, 2.0

* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

* License: Apache License, 2.0

* Project: <http://www.javassist.org/>

* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

* License: Apache License, 2.0

* Project: <https://github.com/FasterXML/jackson-jaxrs-providers>

* Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

* License: jquery.org/license

* Project: jquery.org

* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

* License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)

* Project: <http://www.pasella.it/projects/jquery/barcode>

* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

* License: CC0

* No copyright

* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>
- # Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which

are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall

apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness

for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged

intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of

the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),

version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis

or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other

recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.166 osgi-resource-locator-bundle 1.0.3

1.166.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights reserved.

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Public License v. 2.0, which is available at

* <http://www.eclipse.org/legal/epl-2.0>.

*
* This Source Code may also be made available under the following Secondary
* Licenses when the conditions for such availability set forth in the
* Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
* version 2 with the GNU Classpath Exception, which is available at
* <https://www.gnu.org/software/classpath/license.html>.
*
* SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
*/

Found in path(s):

* /opt/cola/permits/1340031775_1654680102.675777/0/osgi-resource-locator-1-0-3-sources-2-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoader.java
* /opt/cola/permits/1340031775_1654680102.675777/0/osgi-resource-locator-1-0-3-sources-2-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinder.java
* /opt/cola/permits/1340031775_1654680102.675777/0/osgi-resource-locator-1-0-3-sources-2-jar/org/glassfish/hk2/osgiresourcelocator/Activator.java
* /opt/cola/permits/1340031775_1654680102.675777/0/osgi-resource-locator-1-0-3-sources-2-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java
* /opt/cola/permits/1340031775_1654680102.675777/0/osgi-resource-locator-1-0-3-sources-2-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinderImpl.java

1.167 apache-commons-pool 2.4.3

1.167.1 Available under license :

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Apache Commons Pool
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

APACHE COMMONS POOL DERIVATIVE WORKS:

The LinkedBlockingDeque implementation is based on an implementation written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/licenses/publicdomain>

1.168 metrics-integration-for-jdbi3 4.1.29

1.168.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jersey2

Build-Jdk-Spec: 1.8

Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jersey 2.x

Bundle-SymbolicName: io.dropwizard.metrics.jersey2

Bundle-Version: 4.1.29

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.1.29"

Implementation-Title: Metrics Integration for Jersey 2.x

Implementation-Version: 4.1.29

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.35,3)",org.glassfish.jersey.server.model;version="[2.35,3)",org.glassfish.jersey.server.monitoring;version="[2.35,3)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1473592293_1668798067.8552423/0/metrics-jersey2-4-1-29-jar/META-INF/MANIFEST.MF

1.169 curator-testing 4.2.0

1.169.1 Available under license :

Curator Testing

Copyright 2011-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.170 feign-core 8.18.0

1.170.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2015 Netflix, Inc.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Param.java

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/QueryMap.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 Netflix, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/InvocationHandlerFactory.java

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/SynchronousMethodHandler.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Types.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013 Netflix, Inc.

*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Response.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/ErrorDecoder.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Contract.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/EncodingException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Request.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RequestInterceptor.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/auth/Base64.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Util.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RequestTemplate.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Client.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/StringDecoder.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/DecodeException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/FeignException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Target.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/RetryableException.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Logger.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/ReflectiveFeign.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Retryer.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Feign.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/MethodMetadata.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 Netflix, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
*/

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/Decoder.java
- * /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codecs/Encoder.java

1.171 io-grpc-grpc-context 1.39.0

1.171.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2020 Istio Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Envoy

Copyright 2016-2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner].

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

protoc-gen-validate

Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

zero-allocation-hashing

Copyright 2015 Higher Frequency Trading <http://www.higherfrequencytrading.com>

Licensed under Apache License 2.0. See LICENSE for terms.

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/*

* Copyright 2015 The gRPC Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product contains a modified portion of 'OkHttp', an open source HTTP & SPDY client for Android and Java applications, which can be obtained at:

* LICENSE:

* okhttp/third_party/okhttp/LICENSE (Apache License 2.0)

* HOMEPAGE:

* <https://github.com/square/okhttp>

- * LOCATION_IN_GRPC:
- * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source cloud-native high-performance edge/middle/service proxy, which can be obtained at:

- * LICENSE:
 - * xds/third_party/envoy/LICENSE (Apache License 2.0)
- * NOTICE:
 - * xds/third_party/envoy/NOTICE
- * HOMEPAGE:
 - * <https://www.envoyproxy.io>
- * LOCATION_IN_GRPC:
 - * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)', an open source protoc plugin to generate polyglot message validators, which can be obtained at:

- * LICENSE:
 - * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
- * NOTICE:
 - * xds/third_party/protoc-gen-validate/NOTICE
- * HOMEPAGE:
 - * <https://github.com/envoyproxy/protoc-gen-validate>
- * LOCATION_IN_GRPC:
 - * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa', an open source universal data plane API, which can be obtained at:

- * LICENSE:
 - * xds/third_party/udpa/LICENSE (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/cncf/udpa>
- * LOCATION_IN_GRPC:
 - * xds/third_party/udpa

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.172 testcontainers-bom 1.16.2

1.172.1 Available under license :

ibmcom/db2:11.5.0.0a

The MIT License (MIT)

Copyright (c) 2017 - 2019 G DATA Software AG and other authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2017 Capital One Services, LLC and other authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015-2019 Richard North

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

1.173 apache-commons-cli 1.4

1.173.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or

rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.174 archaius-core 0.4.1

1.174.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * Copyright 2012 Netflix, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/jmx/ConfigMBean.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ConfigurationBackedDynamicPropertySupportImpl.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ConfigurationManager.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicStringProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicBooleanProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/FixedDelayPollingScheduler.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/jmx/ConfigJMXManager.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/util/ConfigurationUtils.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PollListener.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicIntProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PropertyListener.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
```

jar/com/netflix/config/ConfigurationBasedDeploymentContext.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicFloatProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/AbstractDynamicPropertyListener.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PropertyWrapper.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/samples/SampleApplication.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/samples/SampleApplicationWithDefaultConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ConfigurationWithPollingSource.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/AbstractPollingScheduler.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/sources/URLConfigurationSource.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicLongProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ConcurrentCompositeConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ConcurrentMapConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PollResult.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicDoubleProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicPropertyFactory.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ClasspathPropertiesConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicURLConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ExpandedConfigurationListenerAdapter.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/WebApplicationProperties.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/AggregatedConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/jmx/BaseConfigMBean.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/SimpleDeploymentContext.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-

jar/com/netflix/config/MissingConfigurationSourceException.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DeploymentContext.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicPropertySupport.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PolledConfigurationSource.java

1.175 protocol-buffers-[bom] 3.17.2

1.175.1 Available under license :

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or distribute this software, either in source code form or as a compiled binary, for any purpose, commercial or non-commercial, and by any means.

In jurisdictions that recognize copyright laws, the author or authors of this software dedicate any and all copyright interest in the software to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <<http://unlicense.org/>>

Copyright 2008 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license. This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>

Tom Chao <chaot@google.com>

Max Cai <maxtroy@google.com>

Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>

Jeffrey Yasskin <jyasskin@google.com>

Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

* Small patch to handle trailing slashes in --proto_path flag.

Johan Euphrosine <proppy@aminche.com>

* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- * Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

1.176 jetty-java-based-http-1-x-http-2-servlet-websocket-server 9.4.45.v20220203

1.176.1 Available under license :

This program and the accompanying materials are made available under the terms of the Eclipse Public License 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>, or the Apache Software License 2.0 which is available at <https://www.apache.org/licenses/LICENSE-2.0>.

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:
 - i) changes to the Program, and
 - ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor

disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

- d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
 - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program. Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if

any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is

intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must:

- a) promptly notify the Commercial Contributor in writing of such claim, and
- b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this

Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

=====
Jetty Web Container

Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
=====

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

* The Apache 2.0 License

<http://www.apache.org/licenses/LICENSE-2.0.html>

and

* The Eclipse Public 1.0 License

<http://www.eclipse.org/legal/epl-v10.html>

Jetty may be distributed under either license.

Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.177 azure-java-sdk-bom-(bill-of-materials)

1.1.1

1.177.1 Available under license :

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
// Code generated by Microsoft (R) AutoRest Code Generator.

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.178 jackson-core 2.13.3

1.178.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0 To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.179 jcl-1-2-implemented-over-slf4j 1.7.32

1.179.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Found in path(s):

* /opt/cola/permits/1300428401_1649931151.46/0/jcl-over-slf4j-1-7-32-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

1.180 fabric8-:::kubernetes-model-:::core

4.10.3

1.180.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.181 micronaut-data 3.3.0

1.181.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2022 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/HintsCapableRepository.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2020 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/naming/NamingStrategies.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/AutoPopulated.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/WhereSpecifications.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PreUpdate.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/SaveAllReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/QueryParameter.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/BatchOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/GenericRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/NamingStrategy.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/CountReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/AssociationUtils.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PostRemove.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/annotation/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Where.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindSliceInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/TypeDefinitions.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/sql/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Pageable.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/PersistentProperty.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/QueryBuilder.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PreRemove.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/DeleteOneAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/reactive/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/CrudRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/UpdateEntityReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/EntityEventMapping.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Slice.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/UpdateInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Query.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/AbstractPersistentEntity.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/SaveEntityAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Association.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/DataTransformer.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/JoinSpecifications.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/reactive/RxJavaCrudRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindSliceAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/SaveOneInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/PersistentEntity.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/jpa/JpaSpecificationExecutor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/AssociationQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Relation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindAllReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DataType.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/PrimaryRepositoryOperations.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/QueryHint.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Id.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/UpdateAllEntitiesInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/DefaultStoredDataOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/RuntimeEmbedded.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/StoredDataOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/SaveOneAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/NonUniqueResultException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/PreparedQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/SqlQueryConfiguration.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/async/AsyncRepositoryOperations.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/reactive/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/RepositoryConfiguration.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Repository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/MappedEntity.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindOneAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/jpa/criteria/SpecificationComposition.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/DefaultQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Version.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/DataAccessResourceFailureException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/SaveEntityReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/JoinPath.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/ExistsByInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindPageReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/Dialect.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DefaultPageable.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/RepositoryOperations.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/async/AsyncCrudRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindOptionalInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/Criteria.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/QueryResult.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindOneReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/IterableResultInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/StoredQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Embedded.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Page.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindStreamInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/convert/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/PageableRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/async/AsyncCapableRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/DeleteBatchOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/QueryModel.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/ExistsByAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/DeleteAllAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/factory/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/EmptyResultException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/UpdateOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/reactive/ReactiveStreamsCrudRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/OptimisticLockException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/MappedProperty.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Expandable.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/SaveEntityInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PrePersist.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/ExistsByReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/RuntimePersistentProperty.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/UpdateAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/DataIntroductionAdvice.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/UpdateAllEntitiesReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Embeddable.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/EntityInstanceOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/jpa/kotlin/CoroutineJpaSpecificationExecutor.kt

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindByIdAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/SaveAllAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/DataAccessException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/factory/Projections.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/EmbeddedId.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Join.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/UpdateEntityAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Sort.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/DateCreated.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PostLoad.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/AbstractSqlLikeQueryBuilder.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/ProjectionList.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/DateUpdated.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/annotation/DataMethod.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/CountAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DefaultSort.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/DeleteOneInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/MappingException.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/AbstractPreparedDataOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/TypeDef.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/UpdateReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/RuntimeAssociation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/UpdateBatchOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Transient.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/reactive/ReactiveCapableRepository.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindAllInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindPageAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/DeleteOneReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/InsertBatchOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/RuntimePersistentEntity.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindPageInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/GeneratedValue.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/PersistentElement.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/DataInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/UpdateEntityInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/naming/NamingStrategy.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/UpdateAllEntriesAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindByIdReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/DeleteAllInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/reactive/ReactiveRepositoryOperations.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DefaultSlice.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PostPersist.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/PreparedDataOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindByIdInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/TypeRole.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindAllAsyncInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/SqlQueryBuilder.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DefaultPage.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/RepositoryMethodKey.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/SaveAllInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/DeleteAllReactiveInterceptor.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/jpa/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/InsertOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/jpa/JpaQueryBuilder.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/DeleteOperation.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/PagedQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/async/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PostUpdate.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/sql/SqlMembers.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/factory/Restrictions.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/naming/package-info.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/CountInterceptor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/DefaultProjectionList.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/async/package-info.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/EntityOperation.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/SaveOneReactiveInterceptor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/package-info.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindOneInterceptor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindSliceReactiveInterceptor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/QueryHints.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/annotation/DataMethodQueryParameter.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/package-info.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/jpa/criteria/IExpression.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/event/EntityEventContext.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/jpa/criteria/impl/QueryResultPersistentEntityCriteriaQuery.java

* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-

jar/io/micronaut/data/operations/reactive/BlockingReactorRepositoryOperations.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/DisjunctionPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/kotlin/CoroutineCrudRepository.kt
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentEntityCriteriaQuery.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/SelectionVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AggregateExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityCriteriaQuery.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/ParameterExpressionImpl.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractCriteriaBuilder.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/util/Joiner.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/CompoundSelection.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/convert/AttributeConverter.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityCriteriaBuilder.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/CriteriaUtils.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/IPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyInValuesPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityFrom.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityCriteriaUpdate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/AttributeConverterRegistry.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/QueryEventContext.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentEntityCriteriaUpdate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/PersistentPropertyPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PostUpdateEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-

jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyUnaryPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/operations/reactive/ReactorReactiveRepositoryOperations.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityJoin.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/criteria/DeleteSpecification.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PostPersistEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/criteria/PredicateSpecification.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/reactive/ReactorJpaSpecificationExecutor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/IdExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/annotation/Indexes.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyInPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/PersistentAssociationPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/annotation/Index.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AbstractPersistentPropertyExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/PropertyAutoPopulator.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/PersistentPropertyOrder.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyBetweenPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PreRemoveEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyBinaryPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/RuntimeEntityRegistry.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityRoot.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/query/BindingContextImpl.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/async/AsyncJpaSpecificationExecutor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/query/BindingParameter.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PredicateBinaryOp.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-

jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentPropertyPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/ISelection.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/PredicateVisitable.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/criteria/QuerySpecification.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/query/QueryModelSelectionVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/LiteralExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/criteria/UpdateSpecification.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentEntityCriteriaDelete.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentEntityJoinSupport.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/ConjunctionPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/EntityEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/operations/reactive/ReactorReactiveCapableRepository.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/PersistenceEventException.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/runtime/QueryParameterBinding.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PostRemoveEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/ExpressionBinaryPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AliasedSelection.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/selection/AbstractNumericalPersistentPropertyExpression.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/QueryModelPersistentEntityCriteriaQuery.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PredicateUnaryOp.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/query/builder/QueryParameterBinding.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PrePersistEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/SelectionVisitable.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/jpa/reactive/ReactiveStreamsJpaSpecificationExecutor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-

jar/io/micronaut/data/model/jpa/criteria/impl/selection/AggregateType.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/AbstractPersistentPropertyPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/PredicateVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/PersistenceEventContext.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentEntityCriteriaDelete.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/event/listeners/PreUpdateEventListener.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/repository/reactive/ReactorCrudRepository.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/query/QueryModelPredicateVisitor.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/NegatedPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/AbstractPredicate.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentAssociationPath.java
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-
jar/io/micronaut/data/model/jpa/criteria/PersistentPropertyPath.java

1.182 servicelocator-default-implementation

2.6.1

1.182.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content

Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from

and are Distributed by that particular Contributor. A Contribution

"originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display,

publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily

used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor

("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended

to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new

free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program

(independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program

except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to

the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: <https://projects.eclipse.org/projects/ee4j.glassfish>

Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/glassfish-ha-api>
- * <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- * <https://github.com/eclipse-ee4j/glassfish-shoal>
- * <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- * <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- * <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
- * <https://github.com/eclipse-ee4j/glassfish-hk2>
- * <https://github.com/eclipse-ee4j/glassfish-fightersfish>

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import,

possession, or use, and re-export of encryption software, to see if this is permitted.

1.183 micronaut-mqtt 2.1.0

1.183.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/annotation/Retained.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/bind/AnnotatedMqttBinder.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/bind/DefaultMqttBinderRegistry.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/serdes/MqttPayloadSerDesRegistry.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/bind/MqttBinderRegistry.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/bind/impl/QosMqttBinder.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/serdes/MqttPayloadSerDes.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/serdes/JavaLangMqttPayloadSerDes.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/config/MqttSSLConfiguration.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/exception/MqttSubscriberException.java
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-
jar/io/micronaut/mqtt/bind/impl/RetainedMqttBinder.java
```


* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/MqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/MqttClientException.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/IdMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/TypedMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/JsonMqttPayloadSerDes.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/PayloadMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/MqttSubscriber.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Qos.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/executor/MqttExecutorFactory.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/package-info.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/DefaultMqttSubscriberExceptionHandler.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/MqttPublisherState.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/TopicMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/FallbackMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Id.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/DefaultMqttPayloadSerDesRegistry.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/package-info.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttIntroductionAdvice.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Topics.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/AcknowledgeMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttSubscriberAdvice.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/DefaultMqttBinder.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/MqttSubscriberExceptionHandler.java

* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/MqttBindingContext.java

No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2017-2021 original authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* https://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473884_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-  
jar/io/micronaut/mqtt/annotation/Topic.java
```

1.184 apache-httpcomponents-asyncclient

4.1.4

1.184.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This project contains annotations derived from JCIP-ANNOTATIONS Copyright (c) 2005 Brian Goetz and Tim Peierls.
See <http://www.jcip.net> and the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/2.5>)
Apache HttpComponents AsyncClient
Copyright 2010-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

1.185 j2objc-annotations 1.3

1.185.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-  
jar/com/google/j2objc/annotations/RetainedWith.java  
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-  
jar/com/google/j2objc/annotations/Property.java
```

```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ObjectiveCName.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2012 Google Inc. All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/WeakOuter.java
```

1.186 jersey's-jersey 2.35

1.186.1 Available under license :

Notice for Jersey Core Common module

This content is produced and maintained by the Eclipse Jersey project.

* <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Google Guava Version 18.0

- * License: Apache License, 2.0

- * Copyright: (C) 2009 The Guava Authors

JSR-166 Extension - JEP 266

- * License: Creative Commons 1.0 (CC0)

- * No copyright

- * Written by Doug Lea with assistance from members of JCP JSR-166

- * Expert Group and released to the public domain, as explained at

- * <http://creativecommons.org/publicdomain/zero/1.0/>

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

- * Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed

source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

* License MIT (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://angularjs.org>

* Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

* License: all the source code provided by AOP Alliance is Public Domain.

* Project: <http://aopalliance.sourceforge.net>

* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

* License: Apache License, 2.0

* Project: <http://beanvalidation.org/1.1/>

* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors

* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

* License: Apache License, 2.0

* Project: <https://beanvalidation.org/>

* Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

* License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)

* Project: <http://getbootstrap.com>

* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
- * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>
- # Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual

property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to

defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this

Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not

responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library

General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.187 jul-to-slf4j-bridge 1.7.32

1.187.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2004-2007 QOS.ch

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2004-2013 QOS.ch

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.188 micronaut-micrometer 4.2.1

1.188.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2022 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/web/HttpMeterFilterFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017-2020 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/ExportConfigurationProperties.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017-2019 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <https://www.apache.org/licenses/LICENSE-2.0>
*
*/

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/aggregator/MeterRegistryConfigurer.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/cache/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedKQueueEventLoopGroupFactory.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/annotation/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/executor/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/ByteBufAllocatorMetricsBinder.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/web/ClientRequestMetricRegistryFilter.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/aggregator/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/intercept/TimedInterceptor.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/aggregator/CompositeMeterRegistryConfigurer.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/management/endpoint/MetricsEndpoint.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/MeterRegistryFactory.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/web/ServerRequestMeterRegistryFilter.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/logging/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/annotation/MicrometerTimed.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/logging/package-info.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/logging/LogbackMeterRegistryBinderFactory.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/MonitoredQueue.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/logging/LoggingMeterRegistryFactory.java
- * /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/datasource/DataSourcePoolMetricsBinderFactory.java

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/datasource/DataSourcePoolMetricsBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/web/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/NettyMetrics.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/system/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/jvm/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/datasource/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/system/SystemMeterRegistryBinderFactoryFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/cache/MicronautCaffeineCacheMetrics.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/jvm/JvmMeterRegistryBinderFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/ChannelMetricsHandler.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedEpollEventLoopGroupFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/annotation/RequiresMetrics.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/management/endpoint/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedNioEventLoopGroupFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/executor/ExecutorServiceMetricsBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/common/tags/CommonTagsConfigurer.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/cache/JCacheMetricsBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/NettyMetricsPipelineBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/web/WebMetricsPublisher.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedEventLoopTaskQueueFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/cache/MicronautCaffeineCacheMetricsBinder.java

No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/META-INF/native-image/io.micronaut.micrometer/micronaut-micrometer-core/native-image.properties

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017-2021 original authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <https://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/binder/grpc/GrpcMetricsListenerFactory.java

* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/intercept/CountedInterceptor.java

1.189 joda-time v2.10.8

1.189.1 Available under license :

=====

= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =

=====

This product includes software developed by
Joda.org (<https://www.joda.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.190 akka-http-core 10.1.12

1.190.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2015 Heiko Seeberger
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1473592355_1668494763.3144631/0/akka-http-core-2-11-10-1-12-sources-
jar/akka/http/javadsl/model/sse/ServerSentEvent.java
* /opt/cola/permits/1473592355_1668494763.3144631/0/akka-http-core-2-11-10-1-12-sources-
jar/akka/http/javadsl/model/headers/LastEventId.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2009-2017 Mathias Doenitz, Alexander Myltsev
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1473592355_1668494763.3144631/0/akka-http-core-2-11-10-1-12-sources-jar/akka/http/impl/model/parser/Base64Parsing.scala

* /opt/cola/permits/1473592355_1668494763.3144631/0/akka-http-core-2-11-10-1-12-sources-jar/akka/http/impl/model/parser/StringBuilding.scala

No license file was found, but licenses were detected in source scan.

// Public domain algorithm: <http://graphics.stanford.edu/~seander/bithacks.html#RoundUpPowerOf2>.

Found in path(s):

* /opt/cola/permits/1473592355_1668494763.3144631/0/akka-http-core-2-11-10-1-12-sources-jar/akka/http/scaladsl/model/sse/ServerSentEvent.scala

No license file was found, but licenses were detected in source scan.

/**

* A Utf8 -> Utf16 (= Java char) decoder.

*

* This decoder is based on the one of Bjoern Hoehrmann from

*

* <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/>

*

* which is licensed under this license:

*

* Copyright (C) 2008-2017 Bjoern Hoehrmann <bjoern@hoehrmann.de>

*

* Permission is hereby granted, free of charge, to any person obtaining a

* copy of this software and associated documentation files (the "Software"),

* to deal in the Software without restriction, including without limitation

* the rights to use, copy, modify, merge, publish, distribute, sublicense,

* and/or sell copies of the Software, and to permit persons to whom the

* Software is furnished to do so, subject to the following conditions:

*

* The above copyright notice and this permission notice shall be included

* in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY,

* WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN

* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*

* INTERNAL API

*/

Found in path(s):

1.191 javabeans-activation-framework-api

1.2.0

1.191.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or

previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the

Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to

limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise

make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken

into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any,

provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these

conditions, and telling the user how to view a copy of this License.
(Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code

means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who

receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the

two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#

Certain source files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on the GNU Project exception for its Classpath libraries, known as the GNU Classpath Exception, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file

that accompanied this code."

You should also note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others. For example, the package includes programs licensed under the Apache License, Version 2.0. Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2. However, note that this would not permit you to commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result. Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications to this package which may subsequently be redistributed and/or involve the use of third party software.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.192 bucket4j-core 4.4.1

1.192.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * Copyright 2015-2018 Vladimir Bukhtoyarov
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Bucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/EstimationProbe.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BucketListener.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/ReplaceConfigurationOrReturnPreviousCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BucketExceptions.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Bandwidth.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Extension.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/local/LockFreeBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/ConfigurationBuilder.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/SimpleBucketListener.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BlockingStrategy.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
```

jar/io/github/bucket4j/local/LocalBucketBuilder.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/GetAvailableTokensCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/local/LocalBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/GridBucketState.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/RecoveryStrategy.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Refill.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/CreateSnapshotCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BlockingBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/GridCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/TryConsumeAndReturnRemainingTokensCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/local/FakeLock.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/IncompatibleConfigurationException.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Nothing.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/AsyncBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/TryConsumeCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/GridBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/local/SynchronizedBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/CommandResult.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/AbstractBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/TimeMeter.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/ConsumeAsMuchAsPossibleCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BucketState.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/Bucket4j.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/BucketConfiguration.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-

```
jar/io/github/bucket4j/grid/ProxyManager.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/GridProxy.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/BucketNotFoundException.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/local/SynchronizationStrategy.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/AbstractBucketBuilder.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/UninterruptibleBlockingStrategy.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/AddTokensCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/ReserveAndCalculateTimeToSleepCommand.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/AsyncScheduledBucket.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/ConsumptionProbe.java
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-
jar/io/github/bucket4j/grid/EstimateAbilityToConsumeCommand.java
No license file was found, but licenses were detected in source scan.
```

```
<!--
~
~ Copyright 2015-2018 Vladimir Bukhtoyarov
~
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1473592299_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/META-
INF/maven/com.github.vladimir-bukhtoyarov/bucket4j-core/pom.xml
```

1.193 software-amazon-ion-ion-java 1.0.2

1.193.1 Available under license :

Amazon Ion Java

Copyright 2007-2016 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.194 s3mock 0.2.6

1.194.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Findify AB

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.195 jdbi-guava-integration 3.25.0

1.195.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

```
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
```

-->

Found in path(s):

```
* /opt/cola/permits/1473592257_1668797404.023364/0/jdbi3-guava-3-25-0-jar/META-INF/maven/org.jdbi/jdbi3-guava/pom.xml
```

1.196 micronaut-oracle-cloud 2.1.1

1.196.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

```
* Copyright 2017-2020 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
```

* <https://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1331474080_1653514413.2292626/0/micronaut-oraclecloud-sdk-2-1-1-sources-jar/io/micronaut/oraclecloud/clients/SdkClients.java
* /opt/cola/permits/1331474080_1653514413.2292626/0/micronaut-oraclecloud-sdk-2-1-1-sources-jar/io/micronaut/oraclecloud/clients/SdkAutomaticFeature.java
* /opt/cola/permits/1331474080_1653514413.2292626/0/micronaut-oraclecloud-sdk-2-1-1-sources-jar/io/micronaut/oraclecloud/clients/BouncyCastleFeature.java

1.197 protocol-buffer-java-util-package 3.19.4

1.197.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Copyright 2008 Google Inc. All rights reserved.  
// Redistribution and use in source and binary forms, with or without  
// modification, are permitted provided that the following conditions are  
// * Redistributions of source code must retain the above copyright  
// notice, this list of conditions and the following disclaimer.  
// * Redistributions in binary form must reproduce the above  
// copyright notice, this list of conditions and the following disclaimer  
// in the documentation and/or other materials provided with the  
// * Neither the name of Google Inc. nor the names of its  
// this software without specific prior written permission.
```

Found in path(s):

* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/struct.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/type.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/api.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/any.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/duration.proto

* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/empty.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/source_context.proto
* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/google/protobuf/descriptor.proto
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1643389670477
Build-Jdk: 1.8.0_181-google-v7
Built-By: acozzette
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.19.4
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.4"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1337069927_1654204168.4612696/0/protobuf-java-3-19-4-1-jar/META-INF/MANIFEST.MF

1.198 akka-actor 2.5.31

1.198.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* <http://creativecommons.org/publicdomain/zero/1.0/>
*/

Found in path(s):

* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/ForkJoinTask.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/ThreadLocalRandom.java

* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/package-info.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/LinkedTransferQueue.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/TransferQueue.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/RecursiveTask.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/ForkJoinWorkerThread.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/ForkJoinPool.java
* /opt/cola/permits/1473591981_1668494826.3828034/0/akka-actor-2-11-2-5-31-sources-1-jar/akka/dispatch/forkjoin/RecursiveAction.java

1.199 fabric8-::-openshift-model 4.10.3

1.199.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.200 junit-platform-junit-platform-engine

1.8.2

1.200.1 Available under license :

Eclipse Public License - v 2.0

=====

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. Definitions

Contribution means:

- * **a)** in the case of the initial Contributor, the initial content Distributed under this Agreement, and
- * **b)** in the case of each subsequent Contributor:
- * **i)** changes to the Program, and

* **ij)*** additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **a)*** distributing or **b)*** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. Grant of Rights

a)* Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b)* Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

****c)**** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

****d)**** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

****e)**** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. Requirements

****3.1)**** If a Contributor Distributes the Program in any form, then:

****a)**** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

****b)**** the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

****i)**** effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

****ii)**** effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

****iii)**** does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

****iv)**** requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

****3.2)**** When the Program is Distributed as Source Code:

****a)**** it must be made available under this Agreement, or if the Program ****i)**** is combined with other material in a separate file or files made available under a Secondary License, and ****ii)**** the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

****b)**** a copy of this Agreement must be included with each copy of the Program.

****3.3)**** Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: ****a)**** promptly notify the Commercial Contributor in writing of such claim, and ****b)**** allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such

provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here }.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Open Source Licenses

=====

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the

subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

1.201 bean-validation-api 2.0.1

1.201.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2013 Cognifide Limited

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.202 caffeine-cache 2.9.1

1.202.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.203 argparse 0.7.0

1.203.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013 Tatsuhiro Tsujikawa

*

* Permission is hereby granted, free of charge, to any person

* obtaining a copy of this software and associated documentation

* files (the "Software"), to deal in the Software without

* restriction, including without limitation the rights to use, copy,

* modify, merge, publish, distribute, sublicense, and/or sell copies

* of the Software, and to permit persons to whom the Software is

* furnished to do so, subject to the following conditions:

*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 Tatsuhiro Tsujikawa

*

* Permission is hereby granted, free of charge, to any person
* obtaining a copy of this software and associated documentation
* files (the "Software"), to deal in the Software without
* restriction, including without limitation the rights to use, copy,
* modify, merge, publish, distribute, sublicense, and/or sell copies
* of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:

*

* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumArgumentType.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/MetavarInference.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 Andrew January

*

* Permission is hereby granted, free of charge, to any person
* obtaining a copy of this software and associated documentation
* files (the "Software"), to deal in the Software without
* restriction, including without limitation the rights to use, copy,
* modify, merge, publish, distribute, sublicense, and/or sell copies
* of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:

*

* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 Tatsuhiro Tsujikawa

*

* Permission is hereby granted, free of charge, to any person
* obtaining a copy of this software and associated documentation
* files (the "Software"), to deal in the Software without
* restriction, including without limitation the rights to use, copy,
* modify, merge, publish, distribute, sublicense, and/or sell copies
* of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:

*

* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.

*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/Namespace.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/TextHelper.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/Subparser.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/Subparsers.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/FeatureControl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/internal/SubparserImpl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/helper/ReflectHelper.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/Arguments.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/Argument.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/annotation/Arg.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-jar/net/sourceforge/argparse4j/ArgumentParsers.java

No license file was found, but licenses were detected in source scan.

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*

* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/internal/TerminalWidth.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2012 Tatsuhiro Tsujikawa
*
* Permission is hereby granted, free of charge, to any person
* obtaining a copy of this software and associated documentation
* files (the "Software"), to deal in the Software without
* restriction, including without limitation the rights to use, copy,
* modify, merge, publish, distribute, sublicense, and/or sell copies
* of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/inf/MutuallyExclusiveGroup.java
No license file was found, but licenses were detected in source scan.

/*

* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file

* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1183892247_1627494500.91/0/argparse4j-0-7-0-sources-3-
jar/net/sourceforge/argparse4j/impl/type/FileArgumentType.java

1.204 fabric8-:::-kubernetes-model-:::- networking 4.10.3

1.204.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.205 apache-kafka 2.8.1

1.205.1 Available under license :

Apache Kafka
Copyright 2021 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (<https://www.apache.org/>).

This distribution has a binary dependency on jersey, which is available under the CDDL License. The source code of jersey can be found at <https://github.com/jersey/jersey/>.

The streams-scala (streams/streams-scala) module was donated by Lightbend and the original code was copyrighted

by them:

Copyright (C) 2018 Lightbend Inc. <<https://www.lightbend.com>>

Copyright (C) 2017-2018 Alexis Seigneurin.

This project contains the following code copied from Apache Hadoop:

clients/src/main/java/org/apache/kafka/common/utils/PureJavaCrc32C.java

Some portions of this file Copyright (c) 2004-2006 Intel Corporation and licensed under the BSD license.

This project contains the following code copied from Apache Hive:

streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.206 apache-commons-configuration 1.8

1.206.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.207 byte-buddy byte-buddy-1.9.10

1.207.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Maven includes a number of components and libraries with separate
copyright notices and license terms. Your use of those components are
subject to the terms and conditions of the following licenses.

AOP alliance (<http://aopalliance.sourceforge.net>) aopalliance:aopalliance:jar:1.0

License: Public Domain

JSR-250 Common Annotations for the Java™ Platform

(<http://jcp.org/aboutJava/communityprocess/final/jsr250/index.html>) javax.annotation:jsr250-api:jar:1.0

License: COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

<https://glassfish.java.net/public/CDDLv1.0.html> (lib/jsr250-api.license)

CDI APIs (<http://www.seamframework.org/Weld/cdi-api>) javax.enterprise:cdi-api:jar:1.0

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0> (lib/cdi-api.license)

Maven Aether Provider (<http://maven.apache.org/ref/3.2.5/maven-aether-provider>) org.apache.maven:maven-aether-provider:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-aether-provider.license)

Maven Artifact (<http://maven.apache.org/ref/3.2.5/maven-artifact>) org.apache.maven:maven-artifact:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-artifact.license)

Maven Compat (<http://maven.apache.org/ref/3.2.5/maven-compat>) org.apache.maven:maven-compat:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-compat.license)

Maven Core (<http://maven.apache.org/ref/3.2.5/maven-core>) org.apache.maven:maven-core:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-core.license)

Maven Embedder (<http://maven.apache.org/ref/3.2.5/maven-embedder>) org.apache.maven:maven-embedder:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-

embedder.license)

Maven Model (<http://maven.apache.org/ref/3.2.5/maven-model>) org.apache.maven:maven-model:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-model.license)

Maven Model Builder (<http://maven.apache.org/ref/3.2.5/maven-model-builder>) org.apache.maven:maven-model-builder:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-model-builder.license)

Maven Plugin API (<http://maven.apache.org/ref/3.2.5/maven-plugin-api>) org.apache.maven:maven-plugin-api:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-plugin-api.license)

Maven Repository Metadata Model (<http://maven.apache.org/ref/3.2.5/maven-repository-metadata>) org.apache.maven:maven-repository-metadata:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-repository-metadata.license)

Maven Settings (<http://maven.apache.org/ref/3.2.5/maven-settings>) org.apache.maven:maven-settings:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-settings.license)

Maven Settings Builder (<http://maven.apache.org/ref/3.2.5/maven-settings-builder>) org.apache.maven:maven-settings-builder:jar:3.2.5

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/maven-settings-builder.license)

Apache Maven Wagon :: Providers :: File Provider (<http://maven.apache.org/wagon/wagon-providers/wagon-file>) org.apache.maven.wagon:wagon-file:jar:2.8

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/wagon-file.license)

Apache Maven Wagon :: Providers :: HTTP Provider (<http://maven.apache.org/wagon/wagon-providers/wagon-http>) org.apache.maven.wagon:wagon-http:jar:2.8

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/wagon-http.license)

Apache Maven Wagon :: Providers :: HTTP Shared Library (<http://maven.apache.org/wagon/wagon-providers/wagon-http-shared>) org.apache.maven.wagon:wagon-http-shared:jar:2.8

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/wagon-http-shared.license)

Apache Maven Wagon :: API (<http://maven.apache.org/wagon/wagon-provider-api>) org.apache.maven.wagon:wagon-provider-api:jar:2.8

License: Apache License, Version 2.0 <http://www.apache.org/licenses/LICENSE-2.0.txt> (lib/wagon-provider-api.license)

Aether API (<http://www.eclipse.org/aether/aether-api/>) org.eclipse.aether:aether-api:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-api.license)

Aether Connector Basic (<http://www.eclipse.org/aether/aether-connector-basic/>) org.eclipse.aether:aether-connector-basic:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-connector-basic.license)

Aether Implementation (<http://www.eclipse.org/aether/aether-impl/>) org.eclipse.aether:aether-impl:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-impl.license)

Aether SPI (<http://www.eclipse.org/aether/aether-spi/>) org.eclipse.aether:aether-spi:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-spi.license)

Aether Transport Wagon (<http://www.eclipse.org/aether/aether-transport-wagon/>) org.eclipse.aether:aether-transport-wagon:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-transport-wagon.license)

Aether Utilities (<http://www.eclipse.org/aether/aether-util/>) org.eclipse.aether:aether-util:jar:1.0.0.v20140518
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html> (lib/aether-util.license)

org.eclipse.sisu.inject (<http://www.eclipse.org/sisu/org.eclipse.sisu.inject/>)
org.eclipse.sisu:org.eclipse.sisu.inject:eclipse-plugin:0.3.0.M1
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html>
(lib/org.eclipse.sisu.inject.license)

org.eclipse.sisu.plexus (<http://www.eclipse.org/sisu/org.eclipse.sisu.plexus/>)
org.eclipse.sisu:org.eclipse.sisu.plexus:eclipse-plugin:0.3.0.M1
License: Eclipse Public License, Version 1.0 <http://www.eclipse.org/legal/epl-v10.html>
(lib/org.eclipse.sisu.plexus.license)

jsoup (<http://jsoup.org/>) org.jsoup:jsoup:jar:1.7.2
License: The MIT License <http://jsoup.com/license> (lib/jsoup.license)

SLF4J API Module (<http://www.slf4j.org>) org.slf4j:slf4j-api:jar:1.7.5
License: MIT License <http://www.opensource.org/licenses/mit-license.php> (lib/slf4j-api.license)

SLF4J Simple Binding (<http://www.slf4j.org>) org.slf4j:slf4j-simple:jar:1.7.5
License: MIT License <http://www.opensource.org/licenses/mit-license.php> (lib/slf4j-simple.license)

Plexus Cipher: encryption/decryption Component (<http://spice.sonatype.org/plexus-cipher>)
org.sonatype.plexus:plexus-cipher:jar:1.7
License: Apache Public License 2.0 <http://www.apache.org/licenses/LICENSE-2.0> (lib/plexus-cipher.license)

Plexus Security Dispatcher Component (<http://spice.sonatype.org/plexus-sec-dispatcher>)
org.sonatype.plexus:plexus-sec-dispatcher:jar:1.3

License: Apache Public License 2.0 <http://www.apache.org/licenses/LICENSE-2.0> (lib/plexus-sec-dispatcher.license)

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
  <link rel="shortlink" href="/node/66" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeU.css" media="print"
/>

  <!--[if lt IE 7]>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?fnb7pm" media="all"
  />
  <![endif]-->
  <script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
  <script type="text/javascript">
  <!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
  {"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
  /--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
  <div id="skip-link">
    <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>
```

```

<div id="wrapper">
  <div id="container" class="clearfix">

    <div id="header">
      <div id="logo-floater">
        <div id="branding"><strong><a href="/">
          
          <span>Open Source Initiative</span>      </a></strong></div>
        </div>

      </div> <!-- /#header -->

      <div id="sidebar-first" class="sidebar">
        <div class="region region-sidebar-first">
          <div id="block-search-form" class="block block-search clearfix">

            <h2 class="title">Search this site:</h2>

            <div class="content">
              <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
                <div class="form-item form-type-textfield form-item-search-block-form">
                  <label class="element-invisible" for="edit-search-block-form--2">Search </label>
                  <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
                </div>
                <div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
MyBqFtDvdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
                <input type="hidden" name="form_id" value="search_block_form" />
              </div>
            </div></form> </div>
          </div>
          <div id="block-system-navigation" class="block block-system block-menu clearfix">

            <h2 class="title">Navigation</h2>

            <div class="content">
              <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
              <li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
              <li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
              <li class="leaf"><a href="/working_groups">Working Groups</a></li>
              <li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
              <li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and

```

```
Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI&#039;s Open Source Education Initiative and
Activities">Open Source Education</a></li>
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI&#039;s work gets
done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI&#039;s membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>
```

```
<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
<h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
<a id="main-content"></a>
<div id="tabs-wrapper" class="clearfix">
<h1 class="with-tabs">The MIT License
(MIT)</h1>
</div>
<div class="clearfix">
<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">
```

```
<div class="content">
<div id="node-66" class="node node-page">
```

```
<div class="content clearfix">

<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) &lt;year&gt; &lt;copyright holders&gt;</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
```

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.

Help shape the future of the Open Source Initiative...

[visit and participate in the OSI wiki](http://osi.xwiki.com).

[Follow @OpenSourceOrg](https://twitter.com/OpenSourceOrg)

[Creative Commons License](http://creativecommons.org/licenses/by/4.0/)

![Creative Commons License](http://i.creativecommons.org/l/by/4.0/88x31.png)

OpenSource.org site content is licensed under a

href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License.<!-- /Creative Commons License -->

```
<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <Work rdf:about="">
    <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
  </Work>
  <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->
```

| Terms of Service

```
</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
//--><![>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><![>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->
```

```
</div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>
```

=====
== NOTICE file corresponding to the section 4 d of ==
== the Apache License, Version 2.0, ==
== in this case for the Gradle distribution. ==
=====

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

It includes the following other software:

Groovy (<http://groovy-lang.org>)

SLF4J (<http://www.slf4j.org>)

Junit (<http://www.junit.org>)

JCIFS (<http://jcifs.samba.org>)

For licenses see the LICENSE file.

If any software distributed with Gradle does not have an Apache 2 License, its license is explicitly listed in the LICENSE file.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====
Gradle Subcomponents:

License for the slf4j package

SLF4J License

Copyright (c) 2004-2007 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License or the X11 License, which is a simple, permissive non-copyleft free software license. It is deemed compatible with virtually all types of licenses, commercial or otherwise. In particular, the Free Software Foundation has declared it compatible with GNU GPL. It is also known to be approved by the Apache Software Foundation as compatible with Apache Software License.

License for the JUnit package

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not

derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
 - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal

actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such

provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

License for the JCIFS package

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

License for the JGit package

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
- * Neither the name of the Eclipse Foundation, Inc. nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright \${project.inceptionYear} - \${current.year} \${copyright.holder}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type"
content="text/html; charset=ISO-8859-1">
```

```
<title>CDDL ver. 1.0</title>
```

```
<meta name="author" content="Cliff Allen">
```

```
</head>
```

```
<body>
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1.


```
<br>
```

Definitions.

```
<br>
```

```
<br>
```

1.1. Contributor means each individual or entity that creates or contributes to the creation of Modifications.

```
<br>
```

```
<br>
```

1.2. Contributor Version means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

```
<br>
```

```
<br>
```

1.3. Covered Software means (a) the Original Software, or (b)

Modifications, or (c) the combination of files containing Original

Software with files containing Modifications, in each case including portions thereof.

1.4. *Executable* means the Covered Software in any form other than

Source Code.

1.5. *Initial Developer* means the individual or entity that first makes

Original Software available under this License.

1.6. *Larger Work* means a work which combines Covered Software or

portions thereof with code not governed by the terms of this License.

1.7. *License* means this document.

1.8. *Licensable* means having the right to grant, to the maximum extent

possible, whether at the time of the initial grant or subsequently

acquired, any and all of the rights conveyed herein.

1.9. *Modifications* means the Source Code and Executable form of any of

the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. *Original Software* means the Source Code and Executable form of

computer software code that is originally released under this License.

1.11. *Patent Claims* means any patent claim(s), now owned or hereafter

acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. *Source Code* means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. *You (or Your)* means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, You includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof);

 (c) The licenses granted in Sections 2.1(a) and (b) are effective on

the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License;

 (d) Notwithstanding Section 2.1(b) above, no patent license is granted:

(1) for code that You delete from the Original Software, or
(2) for
infringements caused by: (i) the modification of the Original Software,
or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted:

(1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications

of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial

Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form

does not attempt to limit or alter the recipients rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software.

Otherwise, You may also choose to use, distribute or otherwise make the

Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear

that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under

Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<title>jsoup License</title>

<meta name="keywords" content="license, open source, mit">

<meta name="description" content="jsoup is licensed under the MIT open source license">

<link type="text/css" rel="stylesheet" href="/rez/style.css">

```

<script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-89734-10']);
  _gaq.push(['_setDomainName', 'jsoup.org']);
  _gaq.push(['_trackPageview']);

  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>
</head>
<body class="n1-">
<div class="wrap">
<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
<p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below.</p>
<h3>The MIT License</h3>
<p>Copyright &copy; 2009 - 2014 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a href="mailto:jonathan@hedley.net">jonathan@hedley.net</a>)</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p>
<p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

```

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>

```
</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
<b>jsoup HTML parser</b> &copy; 2009 - 2014
<a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
size: 8.5in 11.0in;
margin: 0.25in 0.5in 0.25in 0.5in;
tab-interval: 0.5in;
}
p {
margin-left: auto;
margin-top: 0.5em;
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
```

</head>

<body lang="EN-US">

<h2>Eclipse Public License - v 1.0</h2>

<p>THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.</p>

<p>1. DEFINITIONS</p>

<p>"Contribution" means:</p>

<p class="list">a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and</p>

<p class="list">b) in the case of each subsequent Contributor:</p>

<p class="list">i) changes to the Program, and</p>

<p class="list">ii) additions to the Program;</p>

<p class="list">where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.</p>

<p>"Contributor" means any person or entity that distributes the Program.</p>

<p>"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.</p>

<p>"Program" means the Contributions distributed in accordance with this Agreement.</p>

<p>"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.</p>

<p>2. GRANT OF RIGHTS</p>

<p class="list">a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the

Contribution of such Contributor, if any, and such derivative works, in source code and object code form.</p>

<p class="list">b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.</p>

<p class="list">c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.</p>

<p class="list">d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.</p>

<p>3. REQUIREMENTS</p>

<p>A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:</p>

<p class="list">a) it complies with the terms and conditions of this Agreement; and</p>

<p class="list">b) its license agreement:</p>

<p class="list">i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;</p>

<p class="list">ii) effectively excludes on behalf of all Contributors

all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The

Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity

(including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.</p>

<p>All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.</p>

<p>Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.</p>

<p>This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.</p>

</body>

</html>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

License for the slf4j package

SLF4J License

Copyright (c) 2004-2007 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License or the X11 License, which is a simple, permissive non-copyleft free software license. It is deemed compatible with virtually all types of licenses, commercial or otherwise. In particular, the Free Software Foundation has declared it compatible with GNU GPL. It is also known to be approved by the Apache Software Foundation as compatible with Apache Software License.

License for the JUnit package

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the

Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and

distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve

as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

License for the JCIFS package

JCIFS License

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
This library is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU  
Lesser General Public License for more details.
```

```
You should have received a copy of the GNU Lesser General Public  
License along with this library; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">  
<html lang="en">  
<head>  
  <title>Apache License, Version 2.0</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />

<link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

<script type="text/javascript" src="/js/jquery.js"></script>
<script type="text/javascript" src="/js/apache_boot.js"></script>
```

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file
except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0 . Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->
</head>
```

```
<body>
<div id="page" class="container_16">
  <div id="header" class="grid_8">
    
    <h1>The Apache Software Foundation</h1>
    <h2>Apache License, Version 2.0</h2>
  </div>
  <div id="nav" class="grid_8">
    <ul>
      <!-- <li><a href="/" title="Welcome!">Home</a></li> -->
      <li><a href="/foundation/" title="The Foundation">Foundation</a></li>
      <li><a href="http://projects.apache.org" title="The Projects">Projects</a></li>
      <li><a href="http://people.apache.org" title="The People">People</a></li>
      <li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
      <li><a href="/dyn/closer.cgi" title="Download">Download</a></li>
      <li><a href="/foundation/sponsorship.html" title="Support Apache">Support Apache</a></li>
    </ul>
    <p><a href="/">Home</a> &nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></p>
    <form name="search" id="search" action="http://www.google.com/search" method="get">
      <input value="apache.org" name="sitesearch" type="hidden">
      <input type="text" name="q" id="query">
      <input type="submit" id="submit" value="Search">
    </form>
  </div>
  <div class="clear"></div>
```

<div id="content" class="grid_16"><div class="section-content"><p>Apache License
</br>Version 2.0,
January 2004
</br>

http://www.apache.org/licenses/ </p>

<p>TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION</p>

<p>1. Definitions.</p>

<p>"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.</p>

<p>"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.</p>

<p>"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.</p>

<p>"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.</p>

<p>"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.</p>

<p>"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.</p>

<p>"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).</p>

<p>"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.</p>

<p>"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."</p>

<p>"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.</p>

<p>2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.</p>

<p>3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.</p>

<p>4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:</p>

<ol style="list-style: lower-latin;">

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only

and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

<p>5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.</p>

<p>6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.</p>

<p>7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.</p>

<p>8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.</p>

<p>9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License.

However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.</p>

<p>END OF TERMS AND CONDITIONS</p>

<h1 id="apply">APPENDIX: How to apply the Apache License to your work</h1>

<p>To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.</p>

<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

</pre></div></div></div>

<div class="clear"></div>

</div>

<div id="footer" class="container_16">

<div class="links grid_16">

<div class="grid_3">

<h4>Projects</h4>

HTTP Server

Abdera

Accumulo

ACE

ActiveMQ

Airavata

- Allura
- Ambari
- Ant
- Any23
- APR
- Archiva
- Aries
- Avro
- Axis
- Bigtop
- Bloodhound
- Buildr
- BVal
- Camel
- Cassandra
- Cayenne
- Chemistry
- Chukwa
- Clerezza
- CloudStack
- Cocoon
- Commons
- Continuum
- Cordova
- CouchDB
- Creadur
- Crunch
- cTAKES
- Curator
- CXF
- DB
- Deltacloud
- DeltaSpike
- <a href="http://directmemory.apache.org/" title="An off-heap cache for the Java Virtual

Machine">DirectMemory

Directory

Empire-db

Etch

Felix

Flex

Flume

Forrest

Geronimo

Giraph

Gora

Gump

Hadoop

Hama

HBase

Helix

Hive

HttpComponents

Isis

Jackrabbit

James

jclouds

Jena

JMeter

JSPWiki

jUDDI

Kafka

Karaf

Knox

Lenya

Libcloud

Logging

Lucene

<a href="http://lucenenet.apache.org/" title="Search engine library targeted at .NET runtime

users.">Lucene.Net

Lucy

Mahout

ManifoldCF

Marmotta

Maven

Mesos

MINA

MRUnit

MyFaces

Nutch

ODE

OFBiz

Olingo

Oltu

Onami

OODT

Oozie

Open Climate Workbench

OpenJPA

OpenMeetings

OpenNLP

OpenOffice

OpenWebBeans

PDFBox

Perl

Pig

Pivot

POI

Portals

Qpid

Rave

River

Roller

Santuario

- ServiceMix
- Shindig
- Shiro
- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- Stanbol
- STeVe
- Storm
- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Traffic Server
- Turbine
- Tuscanany
- UIMA
- VCL
- Velocity
- VXQuery
- Web Services
- Whirr

- [Wicket](http://wicket.apache.org/ "Component-based Java Web Application Framework.")
- [Wink](http://wink.apache.org/ "RESTful Web services Framework")
- [Wookie](http://wookie.apache.org/ "Widgets for Applications")
- [Xalan](http://xalan.apache.org/ "XSLT processors in Java and C++")
- [Xerces](http://xerces.apache.org/ "XML parsers in Java, C++ and Perl")
- [XMLBeans](http://xmlbeans.apache.org/ "XML-Java binding tool")
- [XML Graphics](http://xmlgraphics.apache.org/ "Conversion from XML to graphical output")
- [ZooKeeper](http://zookeeper.apache.org/ "Centralized service for maintaining configuration information")

</div>

<div class="grid_3">

<h4>Foundation</h4>

FAQ

Glossary

Licenses

Trademarks

News

Press Inquiries

Public Records

Mailing Lists

Sponsorship

Donations

Buy Stuff

Thanks

Contact

</div>

<div class="grid_3 suffix_1">

<h4>Foundation Projects</h4>

Attic

Conferences

Community Development

Incubator

Infrastructure

Labs

Legal Affairs

Public Relations

Security


```
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>
```

```
<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
    <li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>
  </ul>
</div>
```

```
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>
```

```
</div>
<div id="copyright" class="container_16">
  <p>Copyright © 2012 The Apache Software Foundation, Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<br/>Apache and the
Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
</body>
</html>
```

Apache Maven Distribution
Copyright 2001-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).
Apache License

Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```
=====
== NOTICE file corresponding to the section 4 d of      ==
== the Apache License, Version 2.0,                    ==
== in this case for the Gradle distribution.            ==
=====
```

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

It includes the following other software:

Groovy (<http://groovy.codehaus.org>)
SLF4J (<http://www.slf4j.org>)
JUnit (<http://www.junit.org>)
JCIFS (<http://jcifs.samba.org>)

For licenses see the LICENSE file.

If any software distributed with Gradle does not have an Apache 2 License, its license is explicitly listed in the LICENSE file.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.208 jersey-container-servlet 2.35

1.208.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

- * License MIT (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://angularjs.org>
- * Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

- * License: all the source code provided by AOP Alliance is Public Domain.
- * Project: <http://aopalliance.sourceforge.net>
- * Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0
- * Project: <http://beanvalidation.org/1.1/>
- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0
- * Project: <https://beanvalidation.org/>
- * Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)
- * Project: <http://getbootstrap.com>
- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

* License: Apache License, 2.0

* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

* License: Apache License, 2.0

* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.

* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

* License: W3C License

* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement

or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights

in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software

or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE

file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute

such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1

and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new

versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.209 jackson-datatype-jdk8 2.13.3

1.209.1 Available under license :

Apache-2.0

1.210 fabric8-::-kubernetes-model-::-metrics

4.10.3

1.210.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

1.211 resilience4j 0.13.1

1.211.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * Copyright 2017: Robert Winkler
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-
jar/io/github/resilience4j/core/Event.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-
jar/io/github/resilience4j/core/EventProcessor.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-
jar/io/github/resilience4j/core/EventConsumer.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-
jar/io/github/resilience4j/core/EventPublisher.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-
jar/io/github/resilience4j/core/StopWatch.java
```

1.212 swagger-core 2.1.12

1.212.1 Available under license :

Apache-2.0

1.213 jersey-ext-bean-validation 2.33

1.213.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

* License MIT (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://angularjs.org>

* Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

* License: all the source code provided by AOP Alliance is Public Domain.

* Project: <http://aopalliance.sourceforge.net>

* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0
- * Project: <http://beanvalidation.org/1.1/>
- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0
- * Project: <https://beanvalidation.org/>
- * Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)
- * Project: <http://getbootstrap.com>
- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0
- * Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

- * License: Apache License, 2.0
- * Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

- * License: Apache License, 2.0
- * Project: <http://www.javassist.org/>
- * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

- * License: Apache License, 2.0
- * Project: <https://github.com/FasterXML/jackson-jaxrs-providers>
- * Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

- * License: jquery.org/license
- * Project: jquery.org
- * Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

- * License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> & <http://www.gnu.org/licenses/gpl.html>)
- * Project: <http://www.pasella.it/projects/jquery/barcode>
- * Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

- * License: CC0
- * No copyright
- * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public

domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

- * License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>
- * Copyright: Eric Rowell

org.objectweb.asm Version 8.0

- * License: Modified BSD (<http://asm.objectweb.org/license.html>)
- * Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

- * License: Apache License, 2.0
- * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

- * License: Apache License, 2.0
- * Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
- * Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

- * License: W3C License
 - * Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
- <http://www.w3.org/Consortium/Legal/>
Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent

license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all

warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such

Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously

and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in

full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED

INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notice for Jersey Bean Validation module

This content is produced and maintained by the Eclipse Jersey project.

* <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0

- * Project: <https://beanvalidation.org/>

- * Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

1.214 vavr-match 0.10.2

1.214.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* _ _ _ _ _ _ _ _
```

```
* \ \ / / \ \ / / _/
```

```
* \ \ / / ^ \ \ / /
```

```
* \ \ / / \ \ / / \ \ / /
```

```
*
```

```
* Copyright 2014-2019 Vavr, http://vavr.io
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```


- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1446188441_1666171093.7016084/0/vavr-match-0-10-2-sources-2-jar/io/vavr/match/annotation/Unapply.java
- * /opt/cola/permits/1446188441_1666171093.7016084/0/vavr-match-0-10-2-sources-2-jar/io/vavr/match/annotation/Patterns.java

1.215 jdbi3-bom 3.20.1

1.215.1 Available under license :

Jdbi 1 & 2

- Brian McCallister
- Martin Traverso
- Henning Schmiedehausen
- Jax Law
- maniax, for finding a nasty bug in named parameter substitution
- Robert Sfeir, for batch processing feature requests
- Henry Yandell, for `in` clause expansion feature request
- Patrick Burleson, for showing that `DBIException` should extend `RuntimeException`
- Thomas Risberg, for the Spring `DataAccessException` wrapping code
- Simone Gianni, for finding and solving a nasty `setNull` bug
- Thomas Dudziak

Jdbi 3

- Steven Schlansker
- Matthew Hall
- Artem Prigoda
- Marnick L'Eau

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

JDBI

Copyright (C) 2004 - 2015 Brian McCallister

1.216 beanshell 2.0b6

1.216.1 Available under license :

ASM bytecode package in under a 3-clause BSD license (OK).

BSF - check these, probably public domain.

peter jodeleit: <http://commons.apache.org/proper/commons-bsf/>

engine - the jsr223 engine, some files need to be removed (sun javax stuff)

peter jodeleit: these files are obsolete if java 1.5 support is dropped, the file are part of the jdk since 1.6

JUnit

Common Public License - v 1.0

Deal with docs and build files, READMEs?

BSD License

Copyright (c) 2000-2006, www.hamcrest.org

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BeanShell Scripting for Java
Copyright 1997-2012 Patrick Niemeyer
Licensed under the Apache License, Version 2.0.
Granted to the Apache Software Foundation 2012
JUnit

Common Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:

- i) changes to the Program, and

- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

- a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

- b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

- c) Recipient understands that although each Contributor grants the

licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
 - i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- a) it must be made available under this Agreement; and
- b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the

Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of

data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program

(including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/*****

* Licensed to the Apache Software Foundation (ASF) under one *
* or more contributor license agreements. See the NOTICE file *
* distributed with this work for additional information *
* regarding copyright ownership. The ASF licenses this file *
* to you under the Apache License, Version 2.0 (the *
* "License"); you may not use this file except in compliance *
* with the License. You may obtain a copy of the License at *
* *
* <http://www.apache.org/licenses/LICENSE-2.0> *
* *
* Unless required by applicable law or agreed to in writing, *
* software distributed under the License is distributed on an *
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY *
* KIND, either express or implied. See the License for the *
* specific language governing permissions and limitations *
* under the License. *
* *
* *
* This file is part of the BeanShell Java Scripting distribution. *
* Documentation and updates may be found at <http://www.beanshell.org/> *
* Patrick Niemeyer (pat@pat.net) *
* Author of Learning Java, O'Reilly & Associates *
* *

1.217 aop-alliance 1.0

1.217.1 Available under license :

all the source code provided by AOP Alliance is Public Domain.

1.218 metrics-core-library 2.2.0

1.218.1 Available under license :

Public Domain

1.219 micronaut-rxjava-3 2.2.1

1.219.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedComponent.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletableObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/converters/RxJava2ToRxJava3ConveterRegistrar.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedParallelFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingleObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
```

jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/converters/RxJava3ConverterRegistrar.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybeObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxJava3Instrumentation.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedWrappers.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowableSubscriber.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSubscriber.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybe.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingle.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumenterFactory.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/package-info.java

1.220 jedis jedis-3.0.1

1.220.1 Available under license :

Copyright (c) 2010 Jonathan Leibusky

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.221 dropwizard-jetty-support 2.0.28

1.221.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.222 jdbi-joda-time-integration 3.25.0

1.222.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--  
~ Licensed under the Apache License, Version 2.0 (the "License");  
~ you may not use this file except in compliance with the License.  
~ You may obtain a copy of the License at  
~  
~ http://www.apache.org/licenses/LICENSE-2.0  
~  
~ Unless required by applicable law or agreed to in writing, software  
~ distributed under the License is distributed on an "AS IS" BASIS,  
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
~ See the License for the specific language governing permissions and  
~ limitations under the License.
```

-->

Found in path(s):

* /opt/cola/permits/1473592335_1668797468.3497922/0/jdbi3-jodatime2-3-25-0-jar/META-INF/maven/org.jdbi/jdbi3-jodatime2/pom.xml

1.223 snake-yaml 1.30

1.223.1 Available under license :

Found license 'GNU Lesser General Public License' in '// This module is multi-licensed and may be used under the terms // EPL, Eclipse Public License, V1.0 or later, <http://www.eclipse.org/legal> // LGPL, GNU Lesser General Public License, V2.1 or later, <http://www.gnu.org/licenses/lgpl.html> // GPL, GNU General Public License, V2 or later, <http://www.gnu.org/licenses/gpl.html> // AL, Apache License, V2.0 or later, <http://www.apache.org/licenses> // BSD, BSD License, <http://www.opensource.org/licenses/bsd-license.php> * Multi-licensed: EPL / LGPL / GPL / AL / BSD.'

Found license 'Eclipse Public License 1.0' in '// This module is multi-licensed and may be used under the terms // EPL, Eclipse Public License, V1.0 or later, <http://www.eclipse.org/legal> // LGPL, GNU Lesser General Public License, V2.1 or later, <http://www.gnu.org/licenses/lgpl.html> // GPL, GNU General Public License, V2 or later, <http://www.gnu.org/licenses/gpl.html> // AL, Apache License, V2.0 or later, <http://www.apache.org/licenses> // BSD, BSD License, <http://www.opensource.org/licenses/bsd-license.php> * Multi-licensed: EPL / LGPL / GPL / AL / BSD.'

1.224 micronaut-test 3.0.5

1.224.1 Available under license :

Bean Validation API

License: Apache License, Version 2.0

See the license.txt file in the root directory or <<http://www.apache.org/licenses/LICENSE-2.0>>.

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered

Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction.s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys. fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the

section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.225 apache-log4j 2.17.1

1.225.1 Available under license :

Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

*

- * Licensed to the Apache Software Foundation (ASF) under one or more
- * contributor license agreements. See the NOTICE file distributed with
- * this work for additional information regarding copyright ownership.
- * The ASF licenses this file to You under the Apache license, Version 2.0
- * (the "License"); you may not use this file except in compliance with


```
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the license for the specific language governing permissions and
* limitations under the license.
*/
```

1.226 docker-java-transport 3.2.12

1.226.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2012-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-
jar/com/github/dockerjava/transport/LinuxDomainSocket.java
* /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-
jar/com/github/dockerjava/transport/FileDescriptor.java
* /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-
jar/com/github/dockerjava/transport/DomainSocket.java
* /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-
jar/com/github/dockerjava/transport/BsdDomainSocket.java
* /opt/cola/permits/1331473995_1653068669.1105134/0/docker-java-transport-3-2-12-sources-
jar/com/github/dockerjava/transport/AbstractSocket.java
```

1.227 java-architecture-for-xml-binding 2.4.0-b180830.0359

1.227.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has

deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or

such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms

herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or

executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to

achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.228 apache-avro 1.11.0

1.228.1 Available under license :

Apache Avro
Copyright 2009-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.229 jetbrains-annotations 13.0

1.229.1 Available under license :

Copyright 2000-2012 JetBrains s.r.o.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.230 log4j-over-slf4j 1.7.32

1.230.1 Available under license :

No license file was found, but licenses were detected in source scan.

`<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>`

Found in path(s):

* /opt/cola/permits/1198379913_1630347367.42/0/log4j-over-slf4j-1-7-32-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml

1.231 wire-multiplatform-runtime- (experimental) 3.7.0

1.231.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.232 jackson-dataformat-yaml 2.13.3

1.232.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

This copy of Jackson JSON processor YAML module is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.233 netty/tomcatnative-[openssl---classes]

2.0.48.Final

1.233.1 Available under license :

No license file was found, but licenses were detected in source scan.

~ Copyright 2021 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:

~

~ <http://www.apache.org/licenses/LICENSE>

2.0

~

~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.

Found in path(s):

* /opt/cola/permits/1288695178_1648173860.38/0/netty-tcnative-classes-2-0-48-final-jar/META-INF/maven/io.netty/netty-tcnative-classes/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/TomcatNative [OpenSSL - Classes]
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.
Automatic-Module-Name: io.netty.internal.tcnative
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-SymbolicName: io.netty.tcnative-classes
Implementation-Version: 2.0.48.Final
Built-By: norman
Bnd-LastModified: 1643125583217
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-5.1.1.202006162103
Export-Package: io.netty.internal.tcnative;version="2.0.48"
Bundle-Name: Netty/TomcatNative [OpenSSL - Classes]
Bundle-Version: 2.0.48.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative-classes/>

Found in path(s):

* /opt/cola/permits/1288695178_1648173860.38/0/netty-tcnative-classes-2-0-48-final-jar/META-INF/MANIFEST.MF

1.234 fabric8-:::kubernetes-model-:::autoscaling 4.10.3

1.234.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.235 metrics-integration-with-jmx 4.1.29

1.235.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.236 micronaut-gcp 4.1.1

1.236.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2017-2020 original authors  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* https://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-  
jar/io/micronaut/gcp/GoogleCloudConfiguration.java  
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-  
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeMetadataKeys.java  
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-  
jar/io/micronaut/gcp/credentials/GoogleCredentialsConfiguration.java  
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-  
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeInstanceMetadataResolver.java  
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-  
jar/io/micronaut/gcp/UserAgentHeaderProvider.java
```

```
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/condition/RequiresProjectIdCondition.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/package-info.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/Modules.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeNetworkInterface.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeInstanceMetadata.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/discovery/cloud/gcp/GoogleComputeMetadataConfiguration.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/credentials/GoogleCredentialsFactory.java
* /opt/cola/permits/1331473977_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-
jar/io/micronaut/gcp/condition/RequiresGoogleProjectId.java
```

1.237 protobuf-java 3.19.4

1.237.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Copyright 2008 Google Inc. All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// * Neither the name of Google Inc. nor the names of its
// this software without specific prior written permission.
```

Found in path(s):

```
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/duration.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/struct.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-
jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/empty.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/type.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/any.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-
jar/google/protobuf/timestamp.proto
```

* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/source_context.proto
* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/google/protobuf/api.proto
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1643389670477
Build-Jdk: 1.8.0_181-google-v7
Built-By: acozzette
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.19.4
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.4"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1454789367_1666952560.680916/0/protobuf-java-3-19-4-4-jar/META-INF/MANIFEST.MF

1.238 micronaut-rxjava-2 1.2.1

1.238.1 Available under license :

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.239 netty-project 4.1.73.Final

1.239.1 Available under license :

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicator holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or

conceived.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person

obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

/*

* Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.

*

* @APPLE_LICENSE_HEADER_START@

*

* This file contains Original Code and/or Modifications of Original Code

* as defined in and that are subject to the Apple Public Source License

* Version 2.0 (the 'License'). You may not use this file except in

* compliance with the License. Please obtain a copy of the License at

* <https://www.opensource.apple.com/apsl/> and read it before using this

* file.

*

* The Original Code and all software distributed under the License are

* distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER

* EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,

* INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,

* FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.

* Please see the License for the specific language governing rights and

* limitations under the License.

*

* @APPLE_LICENSE_HEADER_END@

*/

The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2011, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicator holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License
Version 2.0, January 2004
<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa

Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.

(<https://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

(BSD License: <https://www.opensource.org/licenses/bsd-license>)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Webbit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/*

* Copyright (c) 2004-2007 QOS.ch

* All rights reserved.

*

* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:

*

* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*/

The Netty Project

=====

Please visit the Netty web site for more information:

* <https://netty.io/>

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:

* license/LICENSE.jsr166y.txt (Public Domain)

* HOMEPAGE:

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

* LICENSE:

* license/LICENSE.base64.txt (Public Domain)

* HOMEPAGE:

* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

* LICENSE:

* license/LICENSE.webbit.txt (BSD License)

* HOMEPAGE:

* <https://github.com/joewalnes/webbit>

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

* LICENSE:

* license/LICENSE.slf4j.txt (MIT License)

* HOMEPAGE:

* <https://www.slf4j.org/>

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

* NOTICE:

* [license/NOTICE.harmony.txt](#)

* LICENSE:

* [license/LICENSE.harmony.txt](#) (Apache License 2.0)

* HOMEPAGE:

* <https://archive.apache.org/dist/harmony/>

This product contains a modified portion of 'jzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

* LICENSE:

* [license/LICENSE.jzip2.txt](#) (MIT License)

* HOMEPAGE:

* <https://code.google.com/p/jzip2/>

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE:

* [license/LICENSE.libdivsufsort.txt](#) (MIT License)

* HOMEPAGE:

* <https://github.com/y-256/libdivsufsort>

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

* LICENSE:

* [license/LICENSE.jctools.txt](#) (ASL2 License)

* HOMEPAGE:

* <https://github.com/JCTools/JCTools>

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE:

* [license/LICENSE.jzlib.txt](#) (BSD style License)

* HOMEPAGE:

* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.compress-lzf.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.lz4.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jpountz/lz4-java>

This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.lzma-java.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jponge/lzma-java>

This product optionally depends on 'zstd-jni', a zstd-jni Java compression and decompression library, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.zstd-jni.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/luben/zstd-jni>

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.jfastlz.txt (MIT License)
- * HOMEPAGE:
 - * <https://code.google.com/p/jfastlz/>

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.protobuf.txt (New BSD License)
- * HOMEPAGE:
 - * <https://github.com/google/protobuf>

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the

equivalent functionality. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.bouncycastle.txt (MIT License)
- * HOMEPAGE:
 - * <https://www.bouncycastle.org/>

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.snappy.txt (New BSD License)
- * HOMEPAGE:
 - * <https://github.com/google/snappy>

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/jboss-remoting/jboss-marshalling>

This product optionally depends on 'Caliper', Google's micro-benchmarking framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.caliper.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/google/caliper>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.commons-logging.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.log4j.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://logging.apache.org/log4j/>

This product optionally depends on 'Aalto XML', an ultra-high performance

non-blocking XML processor, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.aalto-xml.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://wiki.fasterxml.com/AaltoHome>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.hpack.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/twitter/hpack>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.hyper-hpack.txt (MIT License)
- * HOMEPAGE:
 - * <https://github.com/python-hyper/hpack/>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

- * LICENSE:
 - * license/LICENSE.nghttp2-hpack.txt (MIT License)
- * HOMEPAGE:
 - * <https://github.com/nghttp2/nghttp2/>

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

- * LICENSE:
 - * license/LICENSE.commons-lang.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://commons.apache.org/proper/commons-lang/>

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

- * LICENSE:
 - * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/takari/maven-wrapper>

This product contains the dnsinfo.h header file, that provides a way to retrieve the system DNS configuration on MacOS.

This private header is also used by Apple's open source mDNSResponder (<https://opensource.apple.com/tarballs/mDNSResponder/>).

* LICENSE:

* license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)

* HOMEPAGE:

* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

This product optionally depends on 'Brotli4j', Brotli compression and decompression for Java., which can be obtained at:

* LICENSE:

* license/LICENSE.brotli4j.txt (Apache License 2.0)

* HOMEPAGE:

* <https://github.com/hyperxpro/Brotli4j>

Protocol Buffers - Google's data interchange format

Copyright 2013 Google Inc. All rights reserved.

<https://developers.google.com/protocol-buffers/>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner

of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license. This copy of Aalto XML processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<https://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/" Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (<https://www.apache.org/>).

1.240 jna 5.7.0

1.240.1 Available under license :

/*

- * The contents of this file are subject to the Mozilla Public License Version 1.1
- * (the "License"); you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at <http://www.mozilla.org/MPL/>
- *
- * Software distributed under the License is distributed on an "AS IS" basis,
- * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
- * for the specific language governing rights and limitations under the License.
- *
- * The Original Code is 'iText, a free JAVA-PDF library'.
- *
- * The Initial Developer of the Original Code is Bruno Lowagie. Portions created by
- * the Initial Developer are Copyright (C) 1999, 2000, 2001, 2002 by Bruno Lowagie.
- * All Rights Reserved.
- * Co-Developer of the code is Paulo Soares. Portions created by the Co-Developer
- * are Copyright (C) 2000, 2001, 2002 by Paulo Soares. All Rights Reserved.
- *
- * Contributor(s): all the names of the contributors are added in the source code
- * where applicable.
- *
- * Alternatively, the contents of this file may be used under the terms of the

* LGPL license (the "GNU LIBRARY GENERAL PUBLIC LICENSE"), in which case the
* provisions of LGPL are applicable instead of those above. If you wish to
* allow use of your version of this file only under the terms of the LGPL
* License and not to allow others to use your version of this file under
* the MPL, indicate your decision by deleting the provisions above and
* replace them with the notice and other provisions required by the LGPL.
* If you do not delete the provisions above, a recipient may use your version
* of this file under either the MPL or the GNU LIBRARY GENERAL PUBLIC LICENSE.
*
* This library is free software; you can redistribute it and/or modify it
* under the terms of the MPL as stated above or under the terms of the GNU
* Library General Public License as published by the Free Software Foundation;
* either version 2 of the License, or any later version.
*
* This library is distributed in the hope that it will be useful, but WITHOUT
* ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
* FOR A PARTICULAR PURPOSE. See the GNU Library general Public License for more
* details.
*
* If you didn't download this code from the following link, you should check if
* you aren't using an obsolete version:
* <http://www.lowagie.com/iText/>
*
* This class is generated based on a grammar file provided by SUN, and updated
* by Carsten Hammer. SUN's license agreement can be found at this URL:
* <http://java.sun.com/products/java-media/2D/samples/samples-license.html>
* See also the file sun.txt in directory com.lowagie.text.pdf
*/

Maven Ant Tasks

Copyright 2002-2011 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

=====
=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====
=====

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does

and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and

therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any

particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
BSD License

Copyright (c) 2000-2006, www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN

ANY

WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache Ant

Copyright 1999-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.

/*

* Apache License
* Version 2.0, January 2004
* <http://www.apache.org/licenses/>
*

* TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

*

* 1. Definitions.

*

* "License" shall mean the terms and conditions for use, reproduction,
* and distribution as defined by Sections 1 through 9 of this document.

*

* "Licensor" shall mean the copyright owner or entity authorized by
* the copyright owner that is granting the License.

*

* "Legal Entity" shall mean the union of the acting entity and all
* other entities that control, are controlled by, or are under common
* control with that entity. For the purposes of this definition,
* "control" means (i) the power, direct or indirect, to cause the
* direction or management of such entity, whether by contract or
* otherwise, or (ii) ownership of fifty percent (50%) or more of the
* outstanding shares, or (iii) beneficial ownership of such entity.

*

* "You" (or "Your") shall mean an individual or Legal Entity
* exercising permissions granted by this License.

*

* "Source" form shall mean the preferred form for making modifications,
* including but not limited to software source code, documentation
* source, and configuration files.

*

* "Object" form shall mean any form resulting from mechanical
* transformation or translation of a Source form, including but
* not limited to compiled object code, generated documentation,
* and conversions to other media types.

*

* "Work" shall mean the work of authorship, whether in Source or

* Object form, made available under the License, as indicated by a
* copyright notice that is included in or attached to the work
* (an example is provided in the Appendix below).

*
* "Derivative Works" shall mean any work, whether in Source or Object
* form, that is based on (or derived from) the Work and for which the
* editorial revisions, annotations, elaborations, or other modifications
* represent, as a whole, an original work of authorship. For the purposes
* of this License, Derivative Works shall not include works that remain
* separable from, or merely link (or bind by name) to the interfaces of,
* the Work and Derivative Works thereof.

*
* "Contribution" shall mean any work of authorship, including
* the original version of the Work and any modifications or additions
* to that Work or Derivative Works thereof, that is intentionally
* submitted to Licensor for inclusion in the Work by the copyright owner
* or by an individual or Legal Entity authorized to submit on behalf of
* the copyright owner. For the purposes of this definition, "submitted"
* means any form of electronic, verbal, or written communication sent
* to the Licensor or its representatives, including but not limited to
* communication on electronic mailing lists, source code control systems,
* and issue tracking systems that are managed by, or on behalf of, the
* Licensor for the purpose of discussing and improving the Work, but
* excluding communication that is conspicuously marked or otherwise
* designated in writing by the copyright owner as "Not a Contribution."

*
* "Contributor" shall mean Licensor and any individual or Legal Entity
* on behalf of whom a Contribution has been received by Licensor and
* subsequently incorporated within the Work.

*
* 2. Grant of Copyright License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* copyright license to reproduce, prepare Derivative Works of,
* publicly display, publicly perform, sublicense, and distribute the
* Work and such Derivative Works in Source or Object form.

*
* 3. Grant of Patent License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* (except as stated in this section) patent license to make, have made,
* use, offer to sell, sell, import, and otherwise transfer the Work,
* where such license applies only to those patent claims licensable
* by such Contributor that are necessarily infringed by their
* Contribution(s) alone or by combination of their Contribution(s)
* with the Work to which such Contribution(s) was submitted. If You
* institute patent litigation against any entity (including a
* cross-claim or counterclaim in a lawsuit) alleging that the Work

* or a Contribution incorporated within the Work constitutes direct
* or contributory patent infringement, then any patent licenses
* granted to You under this License for that Work shall terminate
* as of the date such litigation is filed.

* 4. Redistribution. You may reproduce and distribute copies of the
* Work or Derivative Works thereof in any medium, with or without
* modifications, and in Source or Object form, provided that You
* meet the following conditions:

* (a) You must give any other recipients of the Work or
* Derivative Works a copy of this License; and

* (b) You must cause any modified files to carry prominent notices
* stating that You changed the files; and

* (c) You must retain, in the Source form of any Derivative Works
* that You distribute, all copyright, patent, trademark, and
* attribution notices from the Source form of the Work,
* excluding those notices that do not pertain to any part of
* the Derivative Works; and

* (d) If the Work includes a "NOTICE" text file as part of its
* distribution, then any Derivative Works that You distribute must
* include a readable copy of the attribution notices contained
* within such NOTICE file, excluding those notices that do not
* pertain to any part of the Derivative Works, in at least one
* of the following places: within a NOTICE text file distributed
* as part of the Derivative Works; within the Source form or
* documentation, if provided along with the Derivative Works; or,
* within a display generated by the Derivative Works, if and
* wherever such third-party notices normally appear. The contents
* of the NOTICE file are for informational purposes only and
* do not modify the License. You may add Your own attribution
* notices within Derivative Works that You distribute, alongside
* or as an addendum to the NOTICE text from the Work, provided
* that such additional attribution notices cannot be construed
* as modifying the License.

* You may add Your own copyright statement to Your modifications and
* may provide additional or different license terms and conditions
* for use, reproduction, or distribution of Your modifications, or
* for any such Derivative Works as a whole, provided Your use,
* reproduction, and distribution of the Work otherwise complies with
* the conditions stated in this License.

* 5. Submission of Contributions. Unless You explicitly state otherwise,
* any Contribution intentionally submitted for inclusion in the Work

* by You to the Licensor shall be under the terms and conditions of
* this License, without any additional terms or conditions.
* Notwithstanding the above, nothing herein shall supersede or modify
* the terms of any separate license agreement you may have executed
* with Licensor regarding such Contributions.
*

* 6. Trademarks. This License does not grant permission to use the trade
* names, trademarks, service marks, or product names of the Licensor,
* except as required for reasonable and customary use in describing the
* origin of the Work and reproducing the content of the NOTICE file.
*

* 7. Disclaimer of Warranty. Unless required by applicable law or
* agreed to in writing, Licensor provides the Work (and each
* Contributor provides its Contributions) on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
* implied, including, without limitation, any warranties or conditions
* of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
* PARTICULAR PURPOSE. You are solely responsible for determining the
* appropriateness of using or redistributing the Work and assume any
* risks associated with Your exercise of permissions under this License.
*

* 8. Limitation of Liability. In no event and under no legal theory,
* whether in tort (including negligence), contract, or otherwise,
* unless required by applicable law (such as deliberate and grossly
* negligent acts) or agreed to in writing, shall any Contributor be
* liable to You for damages, including any direct, indirect, special,
* incidental, or consequential damages of any character arising as a
* result of this License or out of the use or inability to use the
* Work (including but not limited to damages for loss of goodwill,
* work stoppage, computer failure or malfunction, or any and all
* other commercial damages or losses), even if such Contributor
* has been advised of the possibility of such damages.
*

* 9. Accepting Warranty or Additional Liability. While redistributing
* the Work or Derivative Works thereof, You may choose to offer,
* and charge a fee for, acceptance of support, warranty, indemnity,
* or other liability obligations and/or rights consistent with this
* License. However, in accepting such obligations, You may act only
* on Your own behalf and on Your sole responsibility, not on behalf
* of any other Contributor, and only if You agree to indemnify,
* defend, and hold each Contributor harmless for any liability
* incurred by, or claims asserted against, such Contributor by reason
* of your accepting any such warranty or additional liability.
*

* END OF TERMS AND CONDITIONS
*

* APPENDIX: How to apply the Apache License to your work.
*

* To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

*
 * Copyright [yyyy] [name of copyright owner]
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * <http://www.apache.org/licenses/LICENSE-2.0>
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

W3C SOFTWARE NOTICE AND LICENSE

<http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231>

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission.

Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

This license came from: <http://www.megginson.com/SAX/copying.html>
However please note future versions of SAX may be covered
under <http://saxproject.org/?selected=pd>

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com
2000-05-05

=====
=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'com.keypoint/org.jfree' to 'clover.com.keypoint/clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====

=====

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Lang

Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

/*

* The Apache Software License, Version 1.1

*

* Copyright (c) 2000-2003 The Apache Software Foundation. All rights

* reserved.

*
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in
 * the documentation and/or other materials provided with the
 * distribution.
 *
 * 3. The end-user documentation included with the redistribution, if
 * any, must include the following acknowledgement:
 * "This product includes software developed by the
 * Apache Software Foundation (<http://www.apache.org/>)."
 * Alternately, this acknowledgement may appear in the software itself,
 * if and wherever such third-party acknowledgements normally appear.
 *
 * 4. The names "Ant" and "Apache Software
 * Foundation" must not be used to endorse or promote products derived
 * from this software without prior written permission. For written
 * permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache"
 * nor may "Apache" appear in their names without prior written
 * permission of the Apache Group.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * =====
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation. For more
 * information on the Apache Software Foundation, please see
 * <<http://www.apache.org/>>.
 */

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the

copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

MOZILLA PUBLIC LICENSE

Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of

this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have

made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to

charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the

extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABILITY, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER

OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and

expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the NPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.
Portions created by _____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the "[_____] License"), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [_____] License and not to allow others to use

your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [____] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [____] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

/*

Copyright (c) 2000, Derek Petillo
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Praxis Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Public Domain Dedication

This license is acceptable for Free Cultural Works.

Copyright-Only Dedication (based on United States law) or Public Domain Certification

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Open Source License for the overlibmws Package

1. License coverage

Note that this license only covers the script library (javascript core and plugin modules) and not any supporting material such as the overlibmws website or its online documentation and support files. You may not reproduce the website or its online material without explicit written permission from the author, but can freely incorporate scripts and procedures which are demonstrated in that material into your own HTML or XML documents.

2. License (Artistic)

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing

community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

- place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

- use the modified Package only within your corporation or organization.

- rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

- make other distribution arrangements with the Copyright Holder.

You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

- distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

- accompany the distribution with the machine-readable source of the Package with your modifications.

- accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

- make other distribution arrangements with the Copyright Holder.

You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====
=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'it.unimi.dsi.fastutil' to 'clover.it.unimi.dsi.fastutil'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====
=====

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Javolution - Java(TM) Solution for Real-Time and Embedded Systems
Copyright (c) 2006, Javolution (<http://javolution.org>)
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The libffi source distribution contains certain code that is not part of libffi, and is only used as tooling to assist with the building and testing of libffi. This includes the msvcc.sh script used to wrap the Microsoft compiler with GNU compatible command-line options, make_sunver.pl, and the libffi test code distributed in the testsuite/libffi.bhaible directory. This code is distributed with libffi for the purpose of convenience only, and libffi is in no way derived from this code.

msvcc.sh and testsuite/libffi.bhaible are both distributed under the terms of the GNU GPL version 2, as below.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

- b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

libffi - Copyright (c) 1996-2020 Anthony Green, Red Hat, Inc and others.

See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache Commons BeanUtils

Copyright 2000-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

=====
=====
Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.apache.velocity' to 'clover.org.apache.velocity'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====
=====
Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

/*

\$Id: LICENSE.txt,v 1.1.1.1 2004/07/01 13:59:13 jvanzyl Exp \$

Copyright 2002 (C) The Codehaus. All Rights Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions of source code must retain copyright
statements and notices. Redistributions must also contain a
copy of this document.
2. Redistributions in binary form must reproduce the
above copyright notice, this list of conditions and the
following disclaimer in the documentation and/or other
materials provided with the distribution.
3. The name "classworlds" must not be used to endorse or promote
products derived from this Software without prior written
permission of The Codehaus. For written permission, please
contact bob@codehaus.org.
4. Products derived from this Software may not be called "classworlds"
nor may "classworlds" appear in their names without prior written
permission of The Codehaus. "classworlds" is a registered
trademark of The Codehaus.
5. Due credit should be given to The Codehaus.
(<http://classworlds.codehaus.org/>).

THIS SOFTWARE IS PROVIDED BY THE CODEHAUS AND CONTRIBUTORS
``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE CODEHAUS OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

*/

=====
=====
Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from the 'antlr.*' to the 'clover.antlr.*'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.

=====
=====
SOFTWARE RIGHTS

ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the public domain. An individual or company may do whatever they wish with source code distributed with ANTLR or the code generated by ANTLR, including the incorporation of ANTLR, or its output, into commercial software.

We encourage users to develop software with ANTLR. However, we do ask that credit is given to us for developing ANTLR. By "credit", we mean that if you use ANTLR or incorporate any source code into one of your programs (commercial product, research project, or otherwise) that you acknowledge this fact somewhere in the documentation, research report, etc... If you like ANTLR and have developed a nice tool with the output, please mention that you developed it using ANTLR. In addition, we ask that the headers remain intact in our source code. As long as these guidelines are kept, we expect to continue enhancing this system and expect to make other tools available as they are completed.

The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

=====
=====
Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed

their package name from 'com.google.common' to 'clover.com.google.common'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====
=====

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.lowagie' to 'clover.com.lowagie'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====

MOZILLA PUBLIC LICENSE

Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

- (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and
- (b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are

governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered

Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the

Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i)

agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the NPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.mozilla.org/MPL/>

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.

Portions created by _____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the "[_____] License"), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [_____] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [_____] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [_____] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

Apache Velocity

Copyright (C) 2000-2007 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).
onoMnApeShTpQtDJbcUgJTIFONPQeUndIgfQWWNNddIwBl
mi2Kp5RjfhIJdGCSO<bOTNof2KNxm9KCi5lxEyKI9BJW3p
qOPQUXpopOopMMPqnPnXXQPNOPNRnqQNQqStwVxuQSTtVW
UrwSUSSTVwxWSXNmrrpnmqmUUnpsvpntsmmmmmUUnpsvp
ntsmmmmmUUFmbkWJlroZbW4bsbilmjbkqUUnmmmm
Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project - <http://www.dom4j.org>

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/*--

\$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp \$

Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the disclaimer that follows these conditions in the documentation and/or other materials provided with the distribution.
3. The name "JDOM" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact <request_AT_jdom_DOT_org>.
4. Products derived from this software may not be called "JDOM", nor may "JDOM" appear in their name, without prior written permission from the JDOM Project Management <request_AT_jdom_DOT_org>.

In addition, we request (but do not require) that you include in the end-user documentation provided with the redistribution and/or in the software itself an acknowledgement equivalent to the following:

"This product includes software developed by the JDOM Project (<http://www.jdom.org/>)."

Alternatively, the acknowledgment may be graphical using the logos available at <http://www.jdom.org/images/logos>.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the JDOM Project and was originally created by Jason Hunter <jhunter_AT_jdom_DOT_org> and Brett McLaughlin <brett_AT_jdom_DOT_org>. For more information on the JDOM Project, please see <<http://www.jdom.org/>>.

*/

From: <http://www.json.org/license.html>

=====
=====

Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====
=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'org.apache.commons' to 'clover.org.apache.commons'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====
=====

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Copyright (c) 2005 - 2009 Taras Puchko
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright

- notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/*

 */

- * CruiseControl, a Continuous Integration Toolkit
- * Copyright (c) 2001-2003, ThoughtWorks, Inc.
- * 651 W Washington Ave. Suite 500
- * Chicago, IL 60661 USA
- * All rights reserved.
- *
- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:
- *
- * + Redistributions of source code must retain the above copyright
- * notice, this list of conditions and the following disclaimer.
- *
- * + Redistributions in binary form must reproduce the above
- * copyright notice, this list of conditions and the following
- * disclaimer in the documentation and/or other materials provided
- * with the distribution.
- *
- * + Neither the name of ThoughtWorks, Inc., CruiseControl, nor the
- * names of its contributors may be used to endorse or promote
- * products derived from this software without specific prior
- * written permission.
- *
- * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
- * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
- * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
- * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR

* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
* EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
* PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
* PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*****/

Java Native Access project (JNA) is dual-licensed under 2
alternative Open Source/Free licenses: LGPL 2.1 or later and
Apache License 2.0. (starting with JNA version 4.0.0).

You can freely decide which license you want to apply to
the project.

You may obtain a copy of the LGPL License at:

<http://www.gnu.org/licenses/licenses.html>

A copy is also included in the downloadable source code package
containing JNA, in file "LGPL2.1", under the same directory
as this file.

You may obtain a copy of the Apache License at:

<http://www.apache.org/licenses/>

A copy is also included in the downloadable source code package
containing JNA, in file "AL2.0", under the same directory
as this file.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

http://www.atlassian.com/dms/wac/Atlassian_EULA_4-2.pdf

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

/*--

Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the disclaimer that follows these conditions in the documentation and/or other materials provided with the distribution.
3. The name "JDOM" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact <request_AT_jdom_DOT_org>.
4. Products derived from this software may not be called "JDOM", nor may "JDOM" appear in their name, without prior written permission from the JDOM Project Management <request_AT_jdom_DOT_org>.

In addition, we request (but do not require) that you include in the end-user documentation provided with the redistribution and/or in the software itself an acknowledgement equivalent to the following:

"This product includes software developed by the
JDOM Project (<http://www.jdom.org/>)."

Alternatively, the acknowledgment may be graphical using the logos available at <http://www.jdom.org/images/logos>.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the JDOM Project and was originally

created by Jason Hunter <jhunter_AT_jdom_DOT_org> and
Brett McLaughlin <brett_AT_jdom_DOT_org>. For more information
on the JDOM Project, please see <<http://www.jdom.org/>>.

*/

Indiana University Extreme! Lab Software License

Version 1.1.1

Copyright (c) 2002 Extreme! Lab, Indiana University. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any,
must include the following acknowledgment:

"This product includes software developed by the Indiana University
Extreme! Lab (<http://www.extreme.indiana.edu/>)."

Alternately, this acknowledgment may appear in the software itself,
if and wherever such third-party acknowledgments normally appear.

4. The names "Indiana Univeristy" and "Indiana Univeristy Extreme! Lab"
must not be used to endorse or promote products derived from this
software without prior written permission. For written permission,
please contact <http://www.extreme.indiana.edu/>.
5. Products derived from this software may not use "Indiana Univeristy"
name nor may "Indiana Univeristy" appear in their name, without prior
written permission of the Indiana University.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS, COPYRIGHT HOLDERS OR ITS CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

=====

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from the 'org.apache.commons' to the 'clover.org.apache.commons'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

=====

=====

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/*

File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

Author:

Nicolas Garcia Belmonte

Copyright:

Copyright 2008-2009 by Nicolas Garcia Belmonte.

Homepage:

<<http://thejit.org>>

Version:

1.1.2

License:

BSD License

- > Redistribution and use in source and binary forms, with or without
- > modification, are permitted provided that the following conditions are met:
- > * Redistributions of source code must retain the above copyright
- > notice, this list of conditions and the following disclaimer.
- > * Redistributions in binary form must reproduce the above copyright
- > notice, this list of conditions and the following disclaimer in the
- > documentation and/or other materials provided with the distribution.
- > * Neither the name of the organization nor the
- > names of its contributors may be used to endorse or promote products
- > derived from this software without specific prior written permission.
- >
- > THIS SOFTWARE IS PROVIDED BY Nicolas Garcia Belmonte ``AS IS" AND ANY
- > EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
- > WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
- > DISCLAIMED. IN NO EVENT SHALL Nicolas Garcia Belmonte BE LIABLE FOR ANY
- > DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
- > (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
- > LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
- > ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
- > (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
- > SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
- */

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.241 jackson-bom 2.13.2

1.241.1 Available under license :

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.242 jakarta-annotations-api 2.0.0

1.242.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other

form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the

patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any

party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance

claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

- b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to

attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program

into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

* Project home: <https://projects.eclipse.org/projects/ee4j.ca>

Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/common-annotations-api>

Third-party Content

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

1.243 io-projectreactor 3.4.15

1.243.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
# Copyright (c) 2019-2021 VMware Inc. or its affiliates, All Rights Reserved.
```

```
#
```

```
# Licensed under the Apache License, Version 2.0 (the "License");
```

```
# you may not use this file except in compliance with the License.
```

```
# You may obtain a copy of the License at
```

```
#
```

```
# https://www.apache.org/licenses/LICENSE-2.0
```

```
#
```

```
# Unless required by applicable law or agreed to in writing, software
```

```
# distributed under the License is distributed on an "AS IS" BASIS,
```

```
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
# See the License for the specific language governing permissions and
```

```
# limitations under the License.
```

```
reactor.core.scheduler.ReactorBlockHoundIntegration
```

Found in path(s):

```
*/opt/cola/permits/1418559433_1663305970.0121932/0/reactor-core-3-4-15-2-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
```

1.244 metrics-integration-for-apache- httpasyncclient 4.0.5

1.244.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1545937994519

Build-Jdk: 1.8.0_191

Built-By: artem

Bundle-Description: An Apache HttpClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Apache HttpClient

Bundle-SymbolicName: io.dropwizard.metrics.httppasynclient

Bundle-Version: 4.0.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.httppasynclient;uses:="com.codahale.metrics,com.codahale.metrics.httppclient,org.apache.http.config,org.apache.http.conn,org.apache.http.impl.nio.client,org.apache.http.impl.nio.conn,org.apache.http.nio.conn,org.apache.http.nio.reactor";version="4.0.5"

Implementation-Title: Metrics Integration for Apache HttpClient

Implementation-URL: <http://metrics.dropwizard.io/metrics-httppasynclient>

Implementation-Vendor-Id: io.dropwizard.metrics

Implementation-Version: 4.0.5

Import-Package: com.codahale.metrics;version="[4.0,5)",com.codahale.metrics.httppclient;version="[4.0,5)",org.apache.http,org.apache.http.concurrent,org.apache.http.config,org.apache.http.conn,org.apache.http.impl.nio.client,org.apache.http.impl.nio.conn,org.apache.http.nio.conn,org.apache.http.nio.protocol,org.apache.http.nio.reactor,org.apache.http.pool,org.apache.http.protocol

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-3.3.0.201609221906

Found in path(s):

* /opt/cola/permits/1340031649_1654689479.4970224/0/metrics-httppasynclient-4-0-5-jar/META-INF/MANIFEST.MF

1.245 micronaut 3.5.0

1.245.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.246 aws-java-sdk 1.12.192

1.246.1 Available under license :

Apache-2.0

1.247 apache-commons-lang 2.6

1.247.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Commons Lang
Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (<http://www.apache.org/>).

1.248 jersey-container-servlet-core 2.35

1.248.1 Available under license :

Notice for Jersey

This content is produced and maintained by the Eclipse Jersey project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jersey>

Trademarks

Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

- * <https://github.com/eclipse-ee4j/jersey>

Third-party Content

Angular JS, v1.6.6

- * License MIT (<http://www.opensource.org/licenses/mit-license.php>)
- * Project: <http://angularjs.org>
- * Copyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1

- * License: all the source code provided by AOP Alliance is Public Domain.
- * Project: <http://aopalliance.sourceforge.net>
- * Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2

- * License: Apache License, 2.0
- * Project: <http://beanvalidation.org/1.1/>
- * Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual contributors
- * by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final

- * License: Apache License, 2.0
- * Project: <https://beanvalidation.org/>
- * Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

Bootstrap v3.3.7

- * License: MIT license (<https://github.com/twbs/bootstrap/blob/master/LICENSE>)
- * Project: <http://getbootstrap.com>
- * Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0

- * License: Apache License, 2.0

* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1

* License: Apache License, 2.0

* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA

* License: Apache License, 2.0

* Project: <http://www.javassist.org/>

* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.10.1

* License: Apache License, 2.0

* Project: <https://github.com/FasterXML/jackson-jaxrs-providers>

* Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4

* License: jquery.org/license

* Project: jquery.org

* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3

* License: MIT & GPL (<http://www.opensource.org/licenses/mit-license.php> &
<http://www.gnu.org/licenses/gpl.html>)

* Project: <http://www.pasella.it/projects/jquery/barcode>

* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266

* License: CC0

* No copyright

* Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>

KineticJS, v4.7.1

* License: MIT license (<http://www.opensource.org/licenses/mit-license.php>)

* Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>

* Copyright: Eric Rowell

org.objectweb.asm Version 8.0

* License: Modified BSD (<http://asm.objectweb.org/license.html>)

* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0

* License: Apache License, 2.0

* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core

* License: Apache License, 2.0

* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.

* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents

* License: W3C License

* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

<http://www.w3.org/Consortium/Legal/>

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the

rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance

claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of

time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and

conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.249 error_prone_annotations 2.5.1

1.249.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2016 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
```

jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/MustBeClosed.java
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright 2015 The Error Prone Authors.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-
jar/com/google/errorprone/annotations/NoAllocation.java
```

* /opt/cola/permits/1206721250_1632455727.58/0/error-prone-annotations-2-5-1-sources-2-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

1.250 logback-core 1.2.11

1.250.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* Logback: the reliable, generic, fast and flexible logging framework.

* Copyright (C) 1999-2015, QOS.ch. All rights reserved.

*

* This program and the accompanying materials are dual-licensed under

* either the terms of the Eclipse Public License v1.0 as published by

* the Eclipse Foundation

*

* or (per the licensee's choosing)

*

* under the terms of the GNU Lesser General Public License version 2.1

* as published by the Free Software Foundation.

*/

Found in path(s):

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/ContextAwareImpl.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/ConsoleAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/InterpretationContext.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/ConverterUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/InfoStatus.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ParamAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/SyslogAppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/stax/EndEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/EchoEncoder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/node/ComponentNode.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/LocationUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/subst/Parser.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/PatternLayoutBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/FormattingNode.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/TimestampAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/subst/Tokenizer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/ServerSocketListener.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/AutoFlushingObjectWriter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/AbstractEventEvaluatorAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/EndEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/AppenderAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/FormattingConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/SyslogConstants.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLContextFactoryBean.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/AbstractDiscriminator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/AppenderAttachable.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/PropertyContainer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/SiftingJoranConfiguratorBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/html/CssBuilder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/EnvUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/ServerRunner.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/BasicStatusManager.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/SyslogOutputStream.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/IfAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/AppenderFactory.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/AppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/LayoutWrappingEncoder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/ClientVisitor.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/Loader.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/PropertyDefinerBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/CharSequenceState.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/DelayStrategy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/Node.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/InPlayListener.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/StatusUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/DynamicClassLoadingException.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/PropertySetterException.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ObjectWriterFactory.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/ServerListener.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/layout/EchoLayout.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/ErrorStatus.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/FileUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/ComponentTracker.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/FilterReply.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/ElementPath.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/IADDataForComplexProperty.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/LoginAuthenticator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/FixedDelay.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/Appender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/StatusListenerAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/LayoutBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/AbstractSocketAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/html/NOThrowableRenderer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/SocketConnector.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/Compiler.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ActionConst.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/DefaultSocketConnector.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/Parser.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/hook/ShutdownHookBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/util/RegularEscapeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/util/PropertySetter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/StatusBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/StatusManager.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/FilterAttachable.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/Discriminator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/WarnStatus.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/hook/ShutdownHook.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/FormatInfo.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/Duration.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/SystemInfo.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/NopStatusListener.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/TimeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/EventPlayer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/boolex/JaninoEventEvaluatorBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/LiteralConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ObjectWriter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/CompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/DefaultDiscriminator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/DefaultInvocationGate.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/FileSize.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/ContextBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/NewRuleAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/LifeCycleManager.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/subst/Node.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/ScanException.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/stax/BodyEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/boolex/Matcher.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/CyanCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldWhiteCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/QueueFactory.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/SpacePadder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/JoranException.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/DynamicConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/Interpreter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/OptionTokenizer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/filter/Filter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/LogbackException.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/filter/EvaluatorFilter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/html/IThrowableRenderer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/JNDIUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/BodyEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/PostCompileProcessor.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/CoreConstants.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/StringCollectionUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/OutputStreamAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/Context.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/RollingFileAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/StatusListenerAsList.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/SaxEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/LogbackLock.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/RolloverFailure.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/ContextUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/boolex/EventEvaluator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/html/HTMLLayoutBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/recovery/ResilientFileOutputStream.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/Condition.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/UnsynchronizedAppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/PropertyDefiner.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/stax/StaxEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldGreenCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/read/ListAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/Encoder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/stax/StaxEventRecorder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/Status.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/XMLUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ImplicitAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/AbstractAppenderFactoryUsingJoran.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/OptionHelper.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/helpers/CyclicBuffer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/GenericConfigurator.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/stax/StartEvent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSL.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicyBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/ContextAware.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/ActionUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLComponent.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/subst/Token.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/CachingDateFormatter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/IncludeAction.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/ExecutorServiceUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/NOPAction.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/hook/DelayingShutdownHook.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/RemoteReceiverServerRunner.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/StartEvent.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/read/CyclicBufferAppender.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/LifeCycle.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/CloseUtil.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/helpers/Transform.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/StatusPrinter.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/boolex/EvaluationException.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/StatusListener.java
* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/FileAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/Compressor.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/ActionException.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/sift/AppenderTracker.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldRedCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/PreSerializationTransformer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/ElementSelector.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/AsyncAppenderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/NestedBasicPropertyIA.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/IADataForBasicProperty.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/Action.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/rolling/helper/RenameUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/NestedComplexPropertyIA.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/spi/DeferredProcessingAware.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/IncompatibleClassException.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/util/RestrictedEscapeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/encoder/EncoderBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/Token.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/AggregationType.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/ThenOrElseActionBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/Converter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/TokenStream.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/util/ContentTypeUtil.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/Layout.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/conditional/ElseAction.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/helpers/NOPAppender.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/DefaultClass.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/net/server/Client.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/pattern/color/BoldMagentaCompositeConverter.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/spi/RuleStore.java

* /opt/cola/permits/1337069885_1654119262.0130525/0/logback-core-1-2-11-sources-3-jar/ch/qos/logback/core/joran/action/PropertyAction.java

1.251 jackson-bom 2.13.3

1.251.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

* /opt/cola/permits/1343419269_1655288133.0545802/0/jackson-bom-2-13-3-pom-zip/jackson-bom-2.13.3.pom

1.252 animal-sniffer-annotation 1.19

1.252.1 Available under license :

No license file was found, but licenses were detected in source scan.

The MIT License

Copyright (c) 2009 codehaus.org.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Found in path(s):

* /opt/cola/permits/1127519953_1611825926.02/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* The MIT License

*

* Copyright (c) 2008 Kohsuke Kawaguchi and codehaus.org.
*
* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights
* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*
* The above copyright notice and this permission notice shall be included in
* all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
* THE SOFTWARE.
*
*/

Found in path(s):

* /opt/cola/permits/1127519953_1611825926.02/0/animal-sniffer-annotations-1-19-sources-jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

1.253 micronaut-problem-json 2.2.3

1.253.1 Available under license :

Apache License

Version 2.0, January 2004

<https://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.254 couchbase-jvm-core-io 1.7.18

1.254.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

1.255 commons-codec 1.15

1.255.1 Available under license :

Apache Commons Codec

Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<https://www.apache.org/>).

`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====
The content of package `org.apache.commons.codec.language.bm` has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

Original source copyright:

Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

Apache License

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.256 google-android-annotations-library

4.1.1.4

1.256.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2012 The Android Open Source Project
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014842714_1591897072.99/0/annotations-4-1-1-4-sources-
jar/android/annotation/SuppressWarnings.java
* /opt/ws_local/PERMITS_SQL/1014842714_1591897072.99/0/annotations-4-1-1-4-sources-
jar/android/annotation/TargetApi.java
```

1.257 jvm-integration-for-metrics 4.1.29

1.257.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 1.8

Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.1.29
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.1.29"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.1.29
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;resolution:=optional,com.codahale.metrics;version="[4.1,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1473592173_1668797757.6042671/0/metrics-jvm-4-1-29-jar/META-INF/MANIFEST.MF

1.258 jsr311-api 1.1.1

1.258.1 Available under license :

```
/*
 * The contents of this file are subject to the terms
 * of the Common Development and Distribution License
 * (the "License"). You may not use this file except
 * in compliance with the License.
 *
 * You can obtain a copy of the license at
 * http://www.opensource.org/licenses/cddl1.php
 * See the License for the specific language governing
 * permissions and limitations under the License.
 */
```

1.259 opentest4j-opentest4j 1.2.0

1.259.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

1.260 ssl-config-core 0.3.8

1.260.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: ssl.config.core
Bnd-LastModified: 1560601708093
Bundle-Description: ssl-config-core
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>;description=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: ssl-config-core
Bundle-SymbolicName: com.typesafe.sslconfig
Bundle-Vendor: Lightbend
Bundle-Version: 0.3.8
Created-By: 1.8.0_171 (Oracle Corporation)
Export-Package: com.typesafe.sslconfig.ssl;version="0.3.8";uses:="com.typesafe.config,com.typesafe.sslconfig.util,javax.naming ldap,javax.net.ssl,scala,scala.collection,scala.collection.immutable,scala.collection.mutable,scala.reflect,scala.runtime,scala.util.matching,scala.util.parsing.combinator,scala.util.parsing.input",com.typesafe.sslconfig.ssl.debug;version="0.3.8";uses:="com.typesafe.sslconfig.ssl,com.typesafe.sslconfig.util,scala,scala.collection.immutable,scala.reflect,scala.runtime",com.typesafe.sslconfig.util;version="0.3.8";uses:="com.typesafe.config,scala,scala.collection,scala.collection.immutable,scala.concurrent.duration,scala.reflect"
Implementation-Title: ssl-config-core
Implementation-Vendor: Lightbend
Implementation-Vendor-Id: com.typesafe
Implementation-Version: 0.3.8
Import-Package: com.typesafe.config;version="[1.3.0,1.4.0)",com.typesafe.sslconfig.ssl;version="[0.3,1)",com.typesafe.sslconfig.util;version="[0.3,1)",javax.crypto,javax.crypto.interfaces,javax.crypto.spec,javax.naming,javax.naming ldap,javax.net.ssl,javax.security.auth.kerberos,javax.security.auth.x500,scala;version="[2.12,3)",scala.collection;version="[2.12,3)",scala.collection.convert;version="[2.12,3)",scala.collection.generic;version="[2.12,3)",scala.collection.immutable;version="[2.12,3)",scala.collection.mutable;version="[2.12,3)",scala.concurrent.duration;version="[2.12,3)",scala.reflect;version="[2.12,3)",scala.runtime;version="[2.12,3)",scala.runtime.java8;version="[2.12,3)",scala.util;version="[2.12,3)",scala.util.control;version="[2.12,3)",scala.util.matching;version="[2.12,3)",scala.util.parsing.combinator;version="[1.1,2)",scala.util.parsing.input;version="[1.1,2)"

Private-Package: com.typesafe.sslconfig.*
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version>=1.8))"
Specification-Title: ssl-config-core
Specification-Vendor: Lightbend
Specification-Version: 0.3.8
Tool: Bnd-4.0.0.201805111645

Found in path(s):

*/opt/cola/permits/1473592089_1668798640.9743795/0/ssl-config-core-2-12-0-3-8-1-jar/META-INF/MANIFEST.MF

1.261 commons-logging 1.2

1.261.1 Available under license :

```
/*  
 * Licensed to the Apache Software Foundation (ASF) under one or more  
 * contributor license agreements. See the NOTICE file distributed with  
 * this work for additional information regarding copyright ownership.  
 * The ASF licenses this file to You under the Apache License, Version 2.0  
 * (the "License"); you may not use this file except in compliance with  
 * the License. You may obtain a copy of the License at  
 *  
 * http://www.apache.org/licenses/LICENSE-2.0  
 *  
 * Unless required by applicable law or agreed to in writing, software  
 * distributed under the License is distributed on an "AS IS" BASIS,  
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
*/
```

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Commons Logging

Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

1.262 metrics-integration-with-jmx 4.0.5

1.262.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1545938260836
Build-Jdk: 1.8.0_191
Built-By: artem
Bundle-Description: A set of classes which allow you to report metrics via JMX.
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.0.5"
Implementation-Title: Metrics Integration with JMX
Implementation-URL: <http://metrics.dropwizard.io/metrics-jmx>
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.0.5
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.0,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.3.0.201609221906

Found in path(s):

* /opt/cola/permits/1274704779_1648835825.49/0/metrics-jmx-4-0-5-jar/META-INF/MANIFEST.MF

1.263 jopt-simple 5.0.4

1.263.1 Available under license :

The MIT License

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.264 metrics-core 4.0.5

1.264.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the

License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.265 jackson-module:-guice 2.13.3

1.265.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.

It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (<http://fasterxml.com>).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

This copy of Jackson JSON processor `jackson-module-guice` module is licensed under the
Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

1.266 okio 2.8.0

1.266.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2015 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/SegmentedByteString.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-
jar/commonMain/okio/SegmentedByteString.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingTimeout.kt
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2019 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-
jar/commonMain/okio/internal/RealBufferedSource.kt
```

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2017 Square, Inc.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Utf8.kt
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 2019 Square, Inc.  
*  
* Licensed under the Apache License, Version 2.0 (the "License");  
* you may not use this file except in compliance with the License.  
* You may obtain a copy of the License at  
*  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Unless required by applicable law or agreed to in writing, software  
* distributed under the License is distributed on an "AS IS" BASIS,  
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/Buffer.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Sink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Buffer.kt

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Source.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Okio.kt
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/InflaterSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/JvmOkio.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/DeflaterSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Buffer.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Source.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Sink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Timeout.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/SegmentPool.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSink.kt
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 Square, Inc.

*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Util.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Platform.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-Platform.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/ByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 Square Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUpgrade.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/PeekSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Throttler.kt
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Base64.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* <http://www.apache.org/licenses/LICENSE-2.0>

- *
- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSink.kt
- * /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Pipe.kt
- * /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSource.kt
- * /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Options.kt

1.267 jackson-integration-for-metrics 4.0.5

1.267.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1545938158164

Build-Jdk: 1.8.0_191

Built-By: artem

Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Jackson Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.json

Bundle-Version: 4.0.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics, com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4.0.5"

Implementation-Title: Jackson Integration for Metrics

Implementation-URL: <http://metrics.dropwizard.io/metrics-json>

Implementation-Vendor-Id: io.dropwizard.metrics

Implementation-Version: 4.0.5

Import-Package: com.codahale.metrics;version="[4.0,5)",com.codahale.metrics.health;version="[4.0,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.fasterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson.databind.ser.std;version="[2.9,3)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-3.3.0.201609221906

Found in path(s):

* /opt/cola/permits/1274705522_1648836004.08/0/metrics-json-4-0-5-jar/META-INF/MANIFEST.MF

1.268 javabeans-activation-framework-api

1.2.2

1.268.1 Available under license :

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

[subs="normal"]

....

Specification: {doctitle}

Version: {revnumber}

ifeval::["{revremark}" != ""]

Status: {revremark}

endif::[]

ifeval::["{revremark}" == ""]

Status: Final Release

endif:[]

Release: {revdate}

....

Copyright (c) 2019 Eclipse Foundation.

=== Eclipse Foundation Specification License

By using and/or copying this document, or the Eclipse Foundation document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the Eclipse Foundation document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

- * link or URL to the original Eclipse Foundation document.
- * All existing copyright notices, or if one does not exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright (c) [\$date-of-document]
Eclipse Foundation, Inc. <<url to this license>>"

Inclusion of the full text of this NOTICE must be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of Eclipse Foundation documents is granted pursuant to this license, except anyone may prepare and distribute derivative works and portions of this document in software that implements the specification, in supporting materials accompanying such software, and in documentation of such software, PROVIDED that all such works include the notice below. HOWEVER, the publication of derivative works of this document for use as a technical specification is expressly prohibited.

The notice is:

"Copyright (c) 2018 Eclipse Foundation. This software or document includes material copied from or derived from [title and URI of the Eclipse Foundation specification document]."

==== Disclaimers

THIS DOCUMENT IS PROVIDED "AS IS," AND THE COPYRIGHT HOLDERS AND THE ECLIPSE FOUNDATION MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

THE COPYRIGHT HOLDERS AND THE ECLIPSE FOUNDATION WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of the copyright holders or the Eclipse Foundation may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: <https://projects.eclipse.org/projects/ee4j.jaf>

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Distribution License v. 1.0, which is available at <http://www.eclipse.org/org/documents/edl-v10.php>.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/jaf>

Third-party Content

This project leverages the following third party content.

JUnit (4.12)

* License: Eclipse Public License

1.269 dropwizard-configuration-support

2.0.28

1.269.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.270 joda-time 2.10.13

1.270.1 Available under license :

=====

= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =

=====

This product includes software developed by
Joda.org (<https://www.joda.org/>).

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.271 scala 2.12.15

1.271.1 Available under license :

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Scala

Copyright (c) 2002-2021 EPFL

Copyright (c) 2011-2021 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (<https://lamp.epfl.ch/>) and
Lightbend, Inc. (<https://www.lightbend.com/>).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.

1.272 utils 5.5.5

1.272.1 Available under license :

MIT License

Copyright (c) 2016 MobX

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.273 opentelemetry---

io.opentelemetry:opentelemetry-proto 1.6.0-alpha

1.273.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Licensed under the Apache License, Version 2.0 (the "License");  
// you may not use this file except in compliance with the License.  
// You may obtain a copy of the License at  
// http://www.apache.org/licenses/LICENSE-2.0  
// distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/collector/logs/v1/logs_service.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/collector/metrics/v1/metrics_service.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/collector/trace/v1/trace_service.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/trace/v1/trace_config.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/metrics/experimental/metrics_config_service.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/trace/v1/trace.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/logs/v1/logs.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/metrics/v1/metrics.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/resource/v1/resource.proto  
* /opt/cola/permits/1310721520_1650882367.2/0/opentelemetry-proto-1-6-0-alpha-jar/opentelemetry/proto/common/v1/common.proto
```

1.274 swagger-models 2.1.12

1.274.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
 * Copyright 2017 SmartBear Software
 * <p>
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * <p>
 * http://www.apache.org/licenses/LICENSE-2.0
 * <p>
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/EncodingProperty.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/security/SecurityScheme.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/examples/Example.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/FileSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/servers/ServerVariables.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/MediaType.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/OpenAPI.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/Schema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/XML.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/security/Scopes.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/ArraySchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/DateTimeSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
```

jar/io/swagger/v3/oas/models/tags/Tag.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/PasswordSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/Paths.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/ObjectSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/RequestBody.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/security/OAuthFlow.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/QueryParameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/PathParameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/Encoding.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/UUIDSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/CookieParameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/headers/Header.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/callbacks/Callback.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/Content.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/links/Link.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/links/LinkParameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/security/OAuthFlows.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/info/Contact.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/ExternalDocumentation.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/EmailSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/BooleanSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/responses/ApiResponse.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/Components.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/StringSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-

jar/io/swagger/v3/oas/models/security/SecurityRequirement.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/HeaderParameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/BinarySchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/IntegerSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/NumberSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/parameters/Parameter.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/servers/Server.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/info/Info.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/ByteArraySchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/MapSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/Operation.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/servers/ServerVariable.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/DateSchema.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/info/License.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/responses/ApiResponse.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/PathItem.java
* /opt/cola/permits/1340076417_1654622411.2881706/0/swagger-models-2-1-12-sources-1-
jar/io/swagger/v3/oas/models/media/ComposedSchema.java

1.275 fabric8-:::-kubernetes-model-:::- extensions 4.10.3

1.275.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

1.276 jacoco 0.8.5

1.276.1 Available under license :

License

=====

Copyright (c) 2009, 2019 Mountainminds GmbH & Co. KG and Contributors

The JaCoCo Java Code Coverage Library and all included documentation is made available by Mountainminds GmbH & Co. KG, Munich. Except indicated below, the Content is provided to you under the terms and conditions of the Eclipse Public License Version 2.0 ("EPL"). A copy of the EPL is available at <https://www.eclipse.org/legal/epl-2.0/>(<https://www.eclipse.org/legal/epl-2.0/>).

Please visit

<http://www.jacoco.org/jacoco/trunk/doc/license.html>(<http://www.jacoco.org/jacoco/trunk/doc/license.html>)

for the complete license information including third party licenses and trademarks.

<h3>Google Code Prettify</h3>

<p>

Google Code Prettify 2010/07/21

is subject to the terms and conditions of the following license:

</p>

<pre>

Copyright 2011 Mike Samuel et al

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

```
</pre>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="stylesheet" href="resources/doc.css" charset="UTF-8" type="text/css" />
<link rel="shortcut icon" href="resources/report.gif" type="image/gif" />
<title>JaCoCo - Eclipse Public License - Version 2.0</title>
<style type="text/css">
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
</head>
<body>

<div class="breadcrumb">
<a href=" ../index.html" class="el_report">JaCoCo</a> &gt;
<span class="el_source">Eclipse Public License - Version 2.0</span>
</div>
<div id="content">

<h1>Eclipse Public License - v 2.0</h1>

<pre>
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
```

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content

Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,

Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

- a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
- b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
 - i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
 - iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was

received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

</pre>

</div>

<div class="footer">

JaCoCo \${qualified.bundle.version}

Copyright © \${copyright.years} Mountainminds GmbH & Co. KG and Contributors

</div>

</body>

</html>

<h4>ASM</h4>

<p>

ASM 7.2 is subject to the terms and conditions of the following license:

</p>

<pre>

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
</pre>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <link rel="stylesheet" href="resources/doc.css" charset="UTF-8" type="text/css" />
  <link rel="shortcut icon" href="resources/report.gif" type="image/gif" />
  <title>JaCoCo - License</title>
</head>
<body>

<div class="breadcrumb">
  <a href=" ../index.html" class="el_report">JaCoCo</a> &gt;
  <span class="el_source">License</span>
</div>
<div id="content">

<h1>License</h1>

<p>
  Copyright &copy; ${copyright.years} Mountainminds GmbH &amp; Co. KG and Contributors
</p>

<p>
  The JaCoCo Java Code Coverage Library and all included documentation is made
  available by Mountainminds GmbH &amp; Co. KG, Munich. Except indicated below,
  the Content is provided to you under the terms and conditions of the Eclipse
  Public License Version 2.0 (&quot;EPL&quot;). A copy of the EPL is
  <a href="epl-2.0.html">provided</a> with this Content and is also available at
  <a href="https://www.eclipse.org/legal/epl-2.0">https://www.eclipse.org/legal/epl-2.0</a>.
</p>

<h2>Trademarks</h2>

<p>
  Java and all Java-based trademarks are trademarks of Oracle Corporation in the
  United States, other countries, or both. Eclipse and all Eclipse related
```


trademarks and logos are trademarks of the Eclipse Foundation, Inc. OSGi is a trademark, registered trademark, or service mark of The OSGi Alliance in the US and other countries. Apache Ant and Apache Maven are trademarks of the Apache Software Foundation. Android and Dalvik are trademarks of Google Inc. All other trademarks are the property of their respective owners.

</p>

<h2>Third Party Content</h2>

<p>

The Content includes items that have been sourced from third parties as set out below.

</p>

\${args4j.license}

\${asm.license}

\${googlecodeprettify.license}

</div>

<div class="footer">

JaCoCo \${qualified.bundle.version}

Copyright © \${copyright.years} Mountainminds GmbH & Co. KG and Contributors

</div>

</body>

</html>

<h3>args4j</h3>

<p>

args4j 2.0.28 is subject to the terms and conditions of the following license:

</p>

<pre>

Copyright (c) 2013 Kohsuke Kawaguchi and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>

1.277 micronaut-kotlin-integrations 3.2.2

1.277.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorApplicationBuilder.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorApplication.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/AbstractKtorEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/KtorRoutingBuilder.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/KtorTomcatEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/env/MicronautKtorEnvironmentConfig.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/server/KtorNettyEmbeddedServer.kt
* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-
jar/io/micronaut/ktor/factory/MicronautKtorApplicationFactory.kt
```

* /opt/cola/permits/1331473908_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorJettyEmbeddedServer.kt

1.278 zookeeper 3.8.0

1.278.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to You under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/META-INF/maven/org.apache.camel/camel-zookeeper/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at

*

* <http://www.apache.org/licenses/LICENSE-2.0>

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

Found in path(s):

- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperMessage.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/NaturalSortComparator.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperUtils.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperEndpoint.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cloud/ZooKeeperServiceDiscoveryFactory.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperCuratorHelper.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperConnectionManager.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperCuratorConfiguration.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cluster/ZooKeeperClusterView.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/AnyOfOperations.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/CreateOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperConsumer.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cloud/ZooKeeperServiceRegistryConfiguration.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/GetDataOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cloud/ZooKeeperServiceDiscovery.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/DataChangedOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/SetDataOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/DeleteOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ChildrenChangedOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cloud/ZooKeeperServiceRegistry.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/OperationResult.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ZooKeeperOperation.java
- * /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-

```

jar/org/apache/camel/component/zookeeper/operations/ExistenceChangedOperation.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/ZooKeeperProducer.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/operations/ZooKeeperHelper.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/SequenceComparator.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/ZooKeeperConfiguration.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/cluster/ZooKeeperClusterService.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/operations/FutureEventDrivenOperation.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/ZooKeeperComponent.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/operations/ExistsOperation.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/operations/GetChildrenOperation.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/ConnectionHolder.java
* /opt/cola/permits/1425206646_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-
jar/org/apache/camel/component/zookeeper/operations/WatchedEventProvider.java

```

1.279 java-vault-driver 5.1.0

1.279.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

/*****
* Copyright (c) 2015 EclipseSource.
*
* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights
* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*
* The above copyright notice and this permission notice shall be included in all
* copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

```

* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.

*****/

Found in path(s):

- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WritingBuffer.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/WritingBuffer_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/PrettyPrint.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/PrettyPrint_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/Json.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/Json_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WriterConfig.java

No license file was found, but licenses were detected in source scan.

* Copyright (c) 2013, 2015 EclipseSource.

*

* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights
* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:

*

* The above copyright notice and this permission notice shall be included in all
* copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.

*****/

Found in path(s):

- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/ParseException_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/test/mocking/Mocking_Test.java

* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonObject.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/TestUtil.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonWriter_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonString_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonValue.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonParser.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonWriter.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/ParseException.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonObject_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonLiteral.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonNumber.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonArray.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonNumber_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonParser_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonLiteral_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonValue_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonArray_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonString.java

No license file was found, but licenses were detected in source scan.

Vault Java Driver

=====

A zero-dependency Java client for the [Vault](<https://www.vaultproject.io/>) secrets management solution from HashiCorp.

This driver strives to implement Vault's full HTTP API, along with supporting functionality such as automatic retry handling. It does so without relying on any other external libraries beyond the Java standard library, and is compatible with Java 8 and up. So it will play nice with all of your projects, greenfield and legacy alike, without causing conflicts with any other dependency.

NOTE: Although the binary artifact produced by the project is backwards-compatible with Java 8, you do need JDK 9 or higher to modify or build the source code of this library itself.

This Change

Table of Contents

- * [Installing the Driver](#installing-the-driver)
- * [Initializing a Driver Instance](#initializing-a-driver-instance)
- * [Key/Value Secret Engine Config](#key-value-secret-engine-config)
- * [SSL Config](#ssl-config)
- * [General Options](#general-options)
- * [Java Keystore (JKS) based config](#java-keystore-jks-based-config)
- * [OpenSSL (PEM) based config](#openssl-pem-based-config)
- * [Using the driver](#using-the-driver)
- * [API Reference (Javadocs)](#api-reference-javadocs)
- * [Version History](#version-history)
- * [Development](#development)
- * [License](#license)
- * [Other Notes](#other-notes)

Installing the Driver

The driver is available from Maven Central, for all modern Java build systems.

Gradle:

```
dependencies {  
    implementation 'com.bettercloud:vault-java-driver:5.1.0'  
}
```

Maven:

```
<dependency>  
  <groupId>com.bettercloud</groupId>  
  <artifactId>vault-java-driver</artifactId>  
  <version>5.1.0</version>  
</dependency>
```

Initializing a Driver Instance

The `com.bettercloud.vault.VaultConfig` class is used to initialize a driver instance with desired settings.

In the most basic use cases, where you are only supplying a Vault server address and perhaps a root token, there are convenience constructor methods available:

```

final VaultConfig config = new VaultConfig()
    .address("http://127.0.0.1:8200")
    .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8")
    .build();

// You may choose not to provide a root token initially, if you plan to use
// the Vault driver to retrieve one programmatically from an auth backend.
final VaultConfig config = new VaultConfig().address("http://127.0.0.1:8200").build();
...

```

To explicitly set additional config parameters (*), you can use a builder pattern style to construct the `VaultConfig` instance. Either way, the initialization process will try to populate any unset values by looking to environment variables.

```

...
final VaultConfig config =
    new VaultConfig()
        .address("http://127.0.0.1:8200") // Defaults to "VAULT_ADDR" environment variable
        .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8") // Defaults to "VAULT_TOKEN" environment variable
        .openTimeout(5) // Defaults to "VAULT_OPEN_TIMEOUT" environment variable
        .readTimeout(30) // Defaults to "VAULT_READ_TIMEOUT" environment variable
        .sslConfig(new SslConfig().build()) // See "SSL Config" section below
        .build();
...

```

Once you have initialized a `VaultConfig` object, you can use it to construct an instance of the `Vault` primary driver class:

```

...
final Vault vault = new Vault(config);
...

```

Key Value Secret Engine Config

Shortly before its `1.0` release, Vault added a Version 2 of its [Key/Value Secrets Engine](<https://www.vaultproject.io/docs/secrets/kv/index.html>). This supports some addition features beyond the Version 1 that was the default in earlier Vault builds (e.g. secret rotation, soft deletes, etc).

Unfortunately, K/V V2 introduces some breaking changes, in terms of both request/response payloads as well as how URL's are constructed for Vault's REST API. Therefore, version `4.0.0` of this Vault Driver likewise had to introduce some breaking changes, to allow support for both K/V versions.

* **If you are using the new K/V V2 across the board**, then no action is needed. The Vault Driver now assumes this by default.

* **If you are still using the old K/V V1 across the board***, then you can use the `\Vault`` class constructor:
`\public Vault(final VaultConfig vaultConfig, final Integer engineVersion)``, supplying a ``1`` as the engine version parameter.

constructor, then you can declare whether to use Version 1 or 2 across the board.

* **If you are using a mix, of some secret paths mounted with V1 and others mounted with V2***, then you have two options:

* You can explicitly specify your Vault secret paths, and which K/V version each one is using. Construct your `\Vault`` objects

with the constructor `\public Vault(final VaultConfig vaultConfig, final Boolean useSecretsEnginePathMap, final Integer globalFallbackVersion)``.

Within the `\VaultConfig`` object, supply a map of Vault secret paths to their associated K/V version (``1`` or ``2``).

* You can rely on the Vault Driver to auto-detect your mounts and K/V versions upon instantiation. Use the same constructor as above,

but leave the map `\null``. Note that this option requires your authentication credentials to have access to read Vault's `\v1/sys/mounts`` path.

Version 2 of the K/V engine dynamically injects a qualifier element into your secret paths, which varies depending on the type of for read and write operations, in between the root version operation. For example, for read and write operations, the secret path:

```
```v1/mysecret```
```

... has a "data" qualifier injected:

```
```v1/data/mysecret```
```

The default behavior of this driver is to insert the appropriate qualifier one level deep (i.e. in between the root version number and the rest of the path). However, if your secret path is prefixed, such that the qualifier should be injected further down:

```
```v1/my/long/prefix/data/anything/else```
```

... then you should accordingly set the `\VaultConfig.prefixPathDepth`` property when constructing your `\Vault`` instance.

## SSL Config

-----

If your Vault server uses a SSL certificate, then you must supply that certificate to establish connections. Also, if you are using certificate-based client authentication, then you must supply a client certificate and private key that have been previously registered with your Vault server.

SSL configuration has been broken off from the `\VaultConfig`` class, and placed in its own `\SslConfig`` class. This

class likewise using a builder pattern.

#### #### General Options

...

`.verify(false)` // Defaults to "VAULT\_SSL\_VERIFY" environment variable (or else "true")

...

To disable SSL certificate verification altogether, set `sslVerify(false)`. **YOU SHOULD NOT DO THIS IS A REAL PRODUCTION SETTING!** However, it can be useful in a development or testing server context. If this value is explicitly set to `false`, then all other SSL config is basically unused.

#### #### Java Keystore (JKS) based config

You can provide the driver with a JKS truststore, containing Vault's server-side certificate for basic SSL, using one of the following three options:

- `.trustStore(object)` - Supply an in-memory `java.security.KeyStore` file, containing Vault server cert(s) that can be trusted.
- `.trustStoreFile(path)` - Same as the above, but the path references a JKS file on the filesystem.
- `.trustStoreResource(path)` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

If you are only using basic SSL, then no keystore need be provided. However, if you would like to use Vault's TLS Certificate auth backend for client side auth, then you need to provide a JKS keystore containing your client-side certificate and private key:

- `.keyStore(object, password)` - Supply an in-memory `java.security.KeyStore` file containing a client certificate and private key, and the password needed to access it (can be null). can be trusted.
- `.keyStoreFile(path, password)` - Same as the above, but the path references a JKS file on the filesystem.
- `.keyStoreResource(path, password)` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

NOTE: JKS-based config trumps PEM-based config (see below). If for some reason you build an `SslConfig` object with both JKS and PEM data present, then only the JKS data will be used. You cannot "mix-and-match", providing a JKS-based truststore and PEM-based client auth data.

#### #### OpenSSL (PEM) based config

To supply Vault's server-side certificate for basic SSL, you can use one of the following three options:

``.pemFile(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding (defaults to "VAULT\_SSL\_CERT" environment variable).

``.pemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``.pemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``.SslConfig`` Javadocs for more detail).

If SSL verification is enabled, no JKS-based config is provided, AND none of these three methods are called, then ``.SslConfig`` will by default check for a ``.VAULT_SSL_CERT`` environment variable. If that's setw then it will be treated as a filesystem path.

To use Vault's TLS Certificate auth backend for SSL client auth, you must provide your client certificate and private key, using some pair from the following options:

``.clientPemUTF8(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding.

``.clientPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``.clientPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``.SslConfig`` Javadocs for more detail).

``.clientKeyPemUTF8(path)`` - Supply the path to an RSA private key in unencrypted PEM format, using UTF-8 encoding.

``.clientKeyPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``.clientKeyPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``.SslConfig`` Javadocs for more detail).

## Using the Driver

-----

Like the `VaultConfig` class, `Vault` too supports a builder pattern DSL style:

```
...

final Map<String, String> secrets = new HashMap<String, String>();
secrets.put("value", "world");
secrets.put("other_value", "You can store multiple name/value pairs under a single key");

// Write operation
final LogicalResponse writeResponse = vault.logical()
 .write("secret/hello", secrets);

...

// Read operation
final String value = vault.logical()
 .read("secret/hello")
 .getData().get("value");
...

```

`Vault` has a number of methods for accessing the classes that implement the various endpoints of Vault's HTTP API:

- \* `logical()`: Contains core operations such as reading and writing secrets.
- \* `auth()`: Exposes methods for working with Vault's various auth backends (e.g. to programmatically retrieve a token by authenticating with a username and password).
- \* `pki()`: Operations on the PKI backend (e.g. create and delete roles, issue certificate credentials).
- \* `debug()`: Health check endpoints.

The driver DSL also allows you to specify retry logic, by chaining the `withRetries()` ahead of accessing the endpoint implementation:

```
...

// Retry up to 5 times if failures occur, waiting 1000 milliseconds in between each retry attempt.
final LogicalResponse response = vault.withRetries(5, 1000)
 .logical()
 .read("secret/hello");
...

```

## API Reference (Javadocs)

-----

Full [Javadoc documentation](<http://bettercloud.github.io/vault-java-driver/javadoc/>).

## Version History

-----

Note that changes to the major version (i.e. the first number) represent possible breaking changes, and may require modifications in your code to migrate. Changes to the minor version (i.e. the second number) should represent non-breaking changes. The third number represents any very minor bugfix patches.

**\*\*5.1.0\*\***: This release contains the following updates:

- \* Supports path prefixes when using K/V engine V2. [(PR #189)](<https://github.com/BetterCloud/vault-java-driver/pull/189>)
- \* Fixes issues with bulk requests in the transit API. [(PR #195)](<https://github.com/BetterCloud/vault-java-driver/pull/195>)
- \* Adds response body to exception for Auth failures. [(PR #198)](<https://github.com/BetterCloud/vault-java-driver/pull/198>)
- \* Support all options for the createToken operation. [(PR #199)](<https://github.com/BetterCloud/vault-java-driver/pull/199>)

**\*\*5.0.0\*\***: This release contains the following updates:

- \* Changes the retry behavior, to no longer attempt retries on 4xx response codes (for which retries generally won't succeed anyway). This is the only (mildly) breaking change in this release, necessitating a major version bump. [(PR #176)](<https://github.com/BetterCloud/vault-java-driver/pull/176>)
- \* Implements support for the Database secret engine. [(PR #175)](<https://github.com/BetterCloud/vault-java-driver/pull/175>)
- \* Makes the "x-vault-token" header optional, to allow use of Vault Agent. [(PR #184)](<https://github.com/BetterCloud/vault-java-driver/pull/184>)
- \* Removes stray uses of `System.out.println` in favor of `java.util.logging`. [(PR #178)](<https://github.com/BetterCloud/vault-java-driver/pull/178>)
- \* Adds the enum constant `MountType.KEY_VALUE_V2`. [(PR #182)](<https://github.com/BetterCloud/vault-java-driver/pull/182>)

**\*\*4.1.0\*\***: This release contains the following updates:

- \* Support for JWT authentication, for use by Kubernetes and other JWT-based authentication providers. [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/164>)
- \* Updates the lease revoke method, to support changes in the underlying Vault API. [(PR #163)](<https://github.com/BetterCloud/vault-java-driver/pull/163>)
- \* Changes the `VaultConfig.secretsEnginePathMap(...)` method from default access level to `public`, to allow for manual setting [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/156>)
- \* Adds the nonce value to `AuthResponse`, to facilitate re-authentication with Vault via AWS. [(PR #168)](<https://github.com/BetterCloud/vault-java-driver/pull/168>)
- \* Establishes a `module-info` file, updates the JDK requirement for building this library to Java 9 (although the built library artifact remains compatible as a dependency in Java 8 projects). [(PR #165)](<https://github.com/BetterCloud/vault-java-driver/pull/165>)
- \* Updates Gradle, and various test dependencies to their latest versions. Integration tests now target Vault 1.1.3.

**\*\*4.0.0\*\***: This is a breaking-change release, with two primary updates:

- \* Adds support for Version 2 of the Key/Value Secrets Engine. The driver now assumes that your Vault instance uses Version 2 of the

Key/Value Secrets Engine across the board. To configure this, see the [Key/Value Secret Engine Config](#key-value-secret-engine-config)

section above.

- \* Adds support for the namespaces feature of Vault Enterprise.
  
- \* \*\*3.1.0\*\*:

  - \* Adds support for seal-related operations (i.e. `/sys/seal`, `/sys/unseal`, `/sys/seal-status`).
  - \* Adds support for the AWS auth backend.
  - \* Adds support for the Google Cloud Platform auth backend.
  - \* Adds support for the LDAP auth Backend.
  - \* Allows auth backend methods to be configured for non-default mount points.
  - \* Adds "revoke-self" capability for auth tokens.
  - \* Adds support for response-wrapping token validation
  - \* Support for signing a new certificate based on a CSR (i.e. the `/v1/pki/sign` endpoint).
  - \* Support for the PKI backend revoke method, and addition of a `useCsrSans` property in PKI role object
  - \* Gives `VaultConfig` the ability to disable loading from environment variables if desired.
  - \* Cleans up issues with the new Docker-based integration test suite.
  - \* Updates all dependencies to their latest versions (including switching to Vault 0.9.1 for integration testing).

  
- \* \*\*3.0.0\*\*:

  - \* This is a breaking-change release, with several updates.
  - \* \*\*API changes\*\*:
    - \* Adds support for writing arbitrary objects to Vault, instead of just strings (i.e. the `com.bettercloud.vault.api.Logical.write(...)` method now accepts a `Map<String, Object>` rather than a `Map<String, String>`).
    - \* Refactors the `VaultConfig` class, forcing use of the builder pattern and breaking off SSL-related config into a separate `SslConfig` class.
    - \* Refactors the `Auth.createToken()` method, to encapsulate the possible options within a config object rather than having the method signature contain 8 optional arguments.
  - \* \*\*SSL and Auth Backend support\*\*:
    - \* Adds support for authenticating with the TLS Certificate auth backend.
    - \* Updates SSL support in general, allowing users to configure the driver with Java-friendly JKS keystore and truststore files (in addition to continuing to support Vault-friendly PEM format).
    - \* Implements the `/v1/auth/token/lookup-self` endpoint.
    - \* Supports creating tokens against a role.
  - \* \*\*Major re-vamp of the integration test suite\*\*:
    - \* The tests now use the [TestContainers](https://www.testcontainers.org/) library to setup and launch a Vault server instance from within a Docker container, in a completely automated manner. You no longer have to manually configure and run a Vault server to use the test suite!
    - \* The tests are now going against a regular Vault server, rather than one running in "dev mode". Therefore, they are now able to use HTTPS connections rather than plain HTTP.
    - \* Upgrades tests to use Java 8 (although the library itself still targets Java 7).
  - \* \*\*Misc / quality-of-life\*\*:
    - \* Includes the REST response body in `VaultException` messages for basic read and write operations.
    - \* Makes numerous classes implement `Serializable`.
    - \* Upgrades the project to Gradle 4.0.

  
- \* \*\*2.0.0\*\*:

  - \* This is breaking-change release, with numerous deprecated items cleaned up.

- \* Adds support for authentication via the AppRole auth backend.
  - \* Adds support for renewing secret leases.
  - \* Removes the `com.bettercloud.vault.api.Sys`` class, deprecated in the 1.2.0 release.
  - \* Removes the `com.bettercloud.vault.api.Auth.loginByUsernamePassword`` method, deprecated in the 1.2.0 release.
  - \* Removes the fields `leaseId``, `leaseDuration``, and `renewable`` from the `VaultResponse`` base class, instead including them only in the subclasses for specific response types where they are found.
  - \* Changes the `com.bettercloud.vault.response.AuthReponse`` class field `authLeaseDuration`` from type `int`` to `long``.
  - \* Refactors and removes various deprecated `private`` methods, with no change to the exposed API.
- \*\*1.2.0\*\***: This is a substantial release, with numerous additions. It's a minor version number only because there should be no breaking changes. The changes include the following:
- \* Switches from Vault 0.5.x to 0.6.x for automated tests.
  - \* Adds a field to `VaultException`` for capturing the HTTP response code (if any) from Vault.
  - \* Updates the Gradle build, so that you no longer need empty placeholder values for certain variables elsewhere in your environment.
  - \* Updates integration test suite to account for breaking changes in Vault 0.6.x (e.g. you can no longer use a token that was obtained from one of the authentication backends to perform tasks such as creating and deleting roles, etc).
  - \* Deprecates the App ID authentication backend, and adds a new version of the Userpass authentication backend that doesn't require a path prefix. Adds support for the GitHub authentication backend.
  - \* If the `VAULT_TOKEN`` environment parameter is not set, then the driver will now check for a file named `.vault-token`` in the executing user's home directory, and try to read a token value from that.
  - \* Deprecates the `com.bettercloud.vault.api.Sys`` class, moving the debug-related methods into their own specific `com.bettercloud.vault.api.Debug`` class instead.
  - \* Implements some of the lease related endpoints (i.e. revoke, revoke-prefix, revoke-force).
  - \* Supports PKI backends that are mounted on non-default paths.
- \*\*1.1.1\*\***: Changes the `ttl`` argument to `Pki.issue()`` from `Integer`` to `String``, to fix a bug preventing you from specifying the time suffix (e.g. "1h").
- \*\*1.1.0\*\***: Switches from Vault 0.4.x to 0.5.x for automated tests. Adds support to the Logical API wrapper for listing and deleting secrets. Implements the `/v1/sys/health`` health-check HTTP API endpoint. Implements portions of the PKI backend (e.g. creating and deleting roles, issuing credentials). Marks numerous methods as deprecated, to be removed in a future major release.
- \*\*1.0.0\*\***: Drops support for Java 6. Removes all methods marked as `@Deprecated`` in version 0.5.0. Adds support for response metadata (i.e. "lease\_id", "renewable", "lease\_duration") to all response types, rather than just `AuthResponse``. Changes `leaseDuration`` type from `int`` to `Long`` in `AuthResponse``. Removes `final`` declarations on all classes (outside of the JSON package). Various bugfixes. Adds support for auth token self-renewal. Adds support for writing values that return content.
- \*\*0.5.0\*\***: Adds support for supplying SSL certificates, and for toggling whether or not the Vault server's SSL certificate will be verified. Also adds support for "openTimeout" and "readTimeout" settings. Deprecates the "timeout", "sslTimeout", "proxyAddress", "proxyPort", "proxyUsername", and "proxyPassword" settings (the proxy settings may return in a future version, but it's too misleading to have methods exposed for settings that won't really be supported soon).



\* \*\*0.3.0\*\*\*: Initial public release. Support for writing and reading secrets, authenticating with the "AppID" or "Username & Password" auth backends. All over-the-wire methods support automatic retry logic.

## Development

-----

Pull requests are welcomed for bugfixes or enhancements that do not alter the external facing class and method signatures. For any breaking changes that would alter the contract provided by this driver, please open up an issue to discuss it first.

All code changes should include unit test and/or integration test coverage as appropriate. Unit tests are any that can be run in isolation, with no external dependencies. Integration tests are those which require a Vault server instance (at least a Dev Server) up and running.

Unit tests are located under the `src/test` directory, and can be run with the Gradle `unitTest` task.

Integration tests are located under the `src/test-integration` directory, and can be run with the Gradle `integrationTest` task. See the additional `README.md` file in this directory for more detailed information.

Although this library now includes a `module-info` class for use by Java 9+, the library currently targets Java 8 compatibility. Please do not attempt to introduce any features or syntax not compatible with Java 8 (the Gradle build script should prevent you from doing so without modification).

## License

-----

The MIT License (MIT)

Copyright (c) 2016-2019 BetterCloud

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Other Notes

-----

The Vault server system itself is a product of HashiCorp, a completely separate organization.

This client driver adapts JSON parsing code from Ralf Sternberg's excellent [minimal-json](https://github.com/ralfstx/minimal-json) library, likewise available under the MIT License. Package names have all been changed, to prevent any conflicts should you happen to be using a different version of that library elsewhere in your project dependencies.

Found in path(s):

\* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/README.md

No license file was found, but licenses were detected in source scan.

/\*\*

\* <p>Intended for internal use by other classes within the Vault driver library.</p>

\*

\* <p>JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent

\* <a href="https://github.com/ralfstx/minimal-json">"minimal-json"</a> library, available under the MIT License.

\* The package names have all been changed, to prevent any conflicts should you happen to be using a different

\* version of this library elsewhere in your project dependencies.</p>

\*/

Found in path(s):

\* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/package-info.java

## 1.280 throttling-appender 1.1.7

### 1.280.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License 2.0</name>

<url><http://www.apache.org/licenses/LICENSE-2.0.html></url>

Found in path(s):

\* /opt/cola/permits/1473592005\_1668798795.5227418/0/logback-throttling-appender-1-1-7-jar/META-

INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

## 1.281 jakarta-expression-language-3.0-api

### 5.0.0-RC1

#### 1.281.1 Available under license :

# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language project.

\* Project home: <https://projects.eclipse.org/projects/ee4j.el>

## ## Trademarks

Jakarta Expression Language is a trademark of the Eclipse Foundation.

## ## Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

## ## Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0 which is available at <http://www.eclipse.org/legal/epl-2.0>. This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## ## Source Code

The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/el-ri>

## ## Third-party Content

## ## Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

# Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

## 1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution "originates" from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

## 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

### 3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

- a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
- b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
  - i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
  - ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
  - iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
  - iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

- a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
- b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

#### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs

or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be



Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

---

## The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor  
Boston, MA 02110-1335  
USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public

License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means

either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to

apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.  
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

---

#### ## CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that



module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

## 1.282 jul-to-slf4j-bridge 1.7.26

### 1.282.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.283 micronaut-cache 3.3.0

### 1.283.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/JCacheSyncCache.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DefaultCacheErrorHandler.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/serialize/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/DefaultCacheKeyGenerator.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/Cache.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheInfo.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/CacheInvalidate.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheErrorHandler.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/AsyncCacheErrorHandler.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/ParametersKey.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/PutOperations.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/CacheKeyGenerator.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/discovery/DiscoveryClientCacheConfiguration.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/CacheInterceptor.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/KotlinSuspendFunCacheKeyGenerator.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/Cacheable.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/SyncCache.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/discovery/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/exceptions/package-info.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/AbstractMapBasedSyncCache.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/serialize/DefaultStringKeySerializer.java

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DelegatingAsyncCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/InvalidateOperations.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DynamicCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/JCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DefaultCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/AsyncCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/package-info.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/discovery/CachingCompositeDiscoveryClient.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/exceptions/CacheSystemException.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/metrics/JCacheMetricsBinder.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/CacheConfig.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/CachePut.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheConfiguration.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DelegatingAsyncBlockingCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/ValueSupplierException.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheManager.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2017-2021 original authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <https://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/CacheAnnotation.java

No license file was found, but licenses were detected in source scan.

# Licensed under the Apache License, Version 2.0 (the "License");

# you may not use this file except in compliance with the License.

# You may obtain a copy of the License at

# distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/META-INF/native-image/io.micronaut.cache/micronaut-cache-core/native-image.properties

# 1.284 byte-buddy-agent 1.9.10

## 1.284.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix

below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute

must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by

brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.285 fabric8-::-kubernetes-model-::-rbac

### 4.10.3

#### 1.285.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"



means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.286 metrics-jetty 4.1.29

### 1.286.1 Available under license :

Apache-2.0

## 1.287 metrics-health-checks 4.1.29

### 1.287.1 Available under license :

Apache-2.0

## 1.288 apache-commons-lang 3.8.1

### 1.288.1 Available under license :

Apache Commons Lang

Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.289 trove-for-java 3.0.3

## 1.289.1 Available under license :

Found license 'General Public License 2.0' in // Copyright (c) 2001, Eric D. Friedman All Rights Reserved. // Copyright (c) 2009, Rob Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // Copyright (c) 2011, Johan Parent All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License



for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2002, Eric D. Friedman All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2011, Rob Eden All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2009, Rob Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2001, Eric D. Friedman All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2001, Eric D. Friedman All Rights Reserved. // Copyright (c) 2009, Rob Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software \* The caller is thus free to modify the returned array.'

Found license 'General Public License 2.0' in '// Copyright (c) 2009, Robert D. Eden All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2008, Robert D. Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2009, Rob Eden All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2002, Eric D. Friedman All Rights Reserved. // Copyright (c) 2009, Robert D. Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '~ // Copyright (c) 2009, Rob Eden All Rights Reserved. ~ // This library is free software; you can redistribute it and/or ~ // modify it under the terms of the GNU Lesser General Public ~ // License as published by the Free Software Foundation; either ~ // version 2.1 of the License, or (at your option) any later version. ~ // This library is distributed in the hope that it will be useful, ~ // but WITHOUT ANY WARRANTY; without even the implied warranty of ~ // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the ~ // GNU General Public License for more details. ~ // You should have received a copy of the GNU Lesser General Public ~ // License along with this program; if not, write to the Free Software'

Found license 'General Public License 2.0' in '// Copyright (c) 2001, Eric D. Friedman All Rights Reserved. // Copyright (c) 2009, Rob Eden All Rights Reserved. // Copyright (c) 2009, Jeff Randall All Rights Reserved. // This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the // GNU General Public License for more details. // You should have received a copy of the GNU Lesser General Public // License along with this program; if not, write to the Free Software'

## 1.290 kafka-streams-avro-serde 5.5.5

### 1.290.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License 2.0</name>

<url><http://www.apache.org/licenses/LICENSE-2.0.html></url>

Found in path(s):

\* /opt/cola/permits/1473459798\_1668563265.3256707/0/kafka-streams-avro-serde-5-5-5-jar/META-INF/maven/io.confluent/kafka-streams-avro-serde/pom.xml

# 1.291 jackson-dataformats-binary 2.13.3

## 1.291.1 Available under license :

JacksonIon

Copyright 2012-2016 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.292 objenesis 2.6

## 1.292.1 Available under license :

```
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Objenesis
// -----
```

Objenesis

Copyright 2006-2017 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.



4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.293 micronaut-test 3.1.1

### 1.293.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2017-2020 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-jar/io/micronaut/test/extensions/junit5/annotation/MicronautTest.java
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-jar/io/micronaut/test/extensions/junit5/MicronautJUnit5Extension.java
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-jar/io/micronaut/test/extensions/junit5/graal/MicronautJUnit5Gaal.java
```

# 1.294 google-api-grpc-proto-google-common-protos 2.0.1

## 1.294.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
// http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,
// agreement (which includes confidentiality provisions). These features may
```

Found in path(s):

```
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/launch_stage.proto
```

No license file was found, but licenses were detected in source scan.

```
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
// http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/label.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/postal_address.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/datetime.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/source_info.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/quaternion.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/field_behavior.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/latlng.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/httpbody.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/money.proto
* /opt/cola/permits/1337069512_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/logging/type/http_request.proto
```

\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/calendar\_period.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/rpc/code.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/geo/type/viewport.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/client.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/longrunning/operations.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/billing.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/backend.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/consumer.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/fraction.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/system\_parameter.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/rpc/status.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/documentation.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/http.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/rpc/context/attribute\_context.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/quota.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/date.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/logging.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/cloud/audit/audit\_log.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/distribution.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/config\_change.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/metric.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/dayofweek.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/endpoint.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/usage.proto

\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/auth.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/expr.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/log.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/annotations.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/service.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/monitoring.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/resource.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/logging/type/log\_severity.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/color.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/rpc/error\_details.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/context.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/type/timeofday.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/control.proto  
\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/monitored\_resource.proto

# 1.295 scala-java8-compat\_2.12 0.9.1

## 1.295.1 Available under license :

scala-java8-compat

Copyright (c) 2002-2020 EPFL

Copyright (c) 2011-2020 Lightbend, Inc.

scala-java8-compat includes software developed at

LAMP/EPFL (<https://lamp.epfl.ch/>) and

Lightbend, Inc. (<https://www.lightbend.com/>).

Licensed under the Apache License, Version 2.0 (the "License").

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and



- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.296 junit-jupiter-junit-jupiter-engine 5.8.2

## 1.296.1 Available under license :

Eclipse Public License - v 2.0

=====

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### ### 1. Definitions

Contribution means:

- \* \*\*a)\*\* in the case of the initial Contributor, the initial content Distributed under this Agreement, and
- \* \*\*b)\*\* in the case of each subsequent Contributor:
  - \* \*\*i)\*\* changes to the Program, and
  - \* \*\*j)\*\* additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from,

or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **\*\*a)\*\*** distributing or **\*\*b)\*\*** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

### ### 2. Grant of Rights

**\*\*a)\*\*** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

**\*\*b)\*\*** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

**\*\*c)\*\*** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

**\*\*d)\*\*** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

**\*\*e)\*\*** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

### ### 3. Requirements

**\*\*3.1)\*\*** If a Contributor Distributes the Program in any form, then:

\* **\*\*a)\*\*** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under

this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

\* \*\*b)\*\*\* the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

\* \*\*i)\*\*\* effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

\* \*\*ii)\*\*\* effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

\* \*\*iii)\*\*\* does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

\* \*\*iv)\*\*\* requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

\*\*3.2\*\* When the Program is Distributed as Source Code:

\* \*\*a)\*\*\* it must be made available under this Agreement, or if the Program \*(i)\* is combined with other material in a separate file or files made available under a Secondary License, and \*(ii)\* the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

\* \*\*b)\*\*\* a copy of this Agreement must be included with each copy of the Program.

\*\*3.3\*\* Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

#### ### 4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: \*\*a)\*\* promptly notify the Commercial Contributor in writing of such claim, and \*\*b)\*\* allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

### ### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

### ### 6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### ### 7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the

Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

#### Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Open Source Licenses

=====

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

# 1.297 jboss-logging 3.3.2.Final

## 1.297.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."



"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.298 kafka-avro-serializer 5.5.5

## 1.298.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="http://maven.apache.org/POM/4.0.0"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-parent</artifactId>
 <version>5.5.5</version>
</parent>
```

```
<licenses>
 <license>
 <name>Apache License 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
 <distribution>repo</distribution>
 </license>
</licenses>
```

```
<artifactId>kafka-avro-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-avro-serializer</name>
```

```
<dependencies>
 <dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>kafka_${kafka.scala.version}</artifactId>
 <scope>provided</scope>
 </dependency>
 <dependency>
 <groupId>org.apache.avro</groupId>
 <artifactId>avro</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-serializer</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-client</artifactId>
 </dependency>
```

```

<dependency>
 <groupId>io.confluent</groupId>
 <artifactId>common-config</artifactId>
</dependency>

<dependency>
 <groupId>com.google.guava</groupId>
 <artifactId>guava</artifactId>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <scope>test</scope>
</dependency>
</dependencies>

<build>
 <plugins>
 <plugin>
 <groupId>org.apache.avro</groupId>
 <artifactId>avro-maven-plugin</artifactId>
 <executions>
 <execution>
 <phase>generate-sources</phase>
 <goals>
 <goal>schema</goal>
 </goals>
 <configuration>
 <testSourceDirectory>${project.basedir}/src/test/avro</testSourceDirectory>
 </configuration>
 </execution>
 </executions>
 </plugin>
 </plugins>
</build>
</project>

```

Found in path(s):

\* /opt/cola/permits/1341640010\_1654785818.176366/0/kafka-avro-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-avro-serializer/pom.xml

## 1.299 dropwizard-logging-support 2.0.28

## 1.299.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade



names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

# 1.300 google-guice 4.2.3

## 1.300.1 Available under license :

Google Guice - Core Library

Copyright 2006-2020 Google, Inc.

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.301 fabric8-::-kubernetes-model-::-apps

## 4.10.3

### 1.301.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and



attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.302 apache-httpcomponents-core 4.4.13

## 1.302.1 Available under license :

Apache HttpComponents Core  
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,  
including but not limited to software source code, documentation  
source, and configuration files.

"Object" form shall mean any form resulting from mechanical  
transformation or translation of a Source form, including but  
not limited to compiled object code, generated documentation,  
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.303 metrics-health-checks 4.1.11

## 1.303.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: An addition to Metrics which provides the ability to run application-specific health checks, allowing you to check your application's health in production.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Health Checks

Bundle-SymbolicName: io.dropwizard.metrics.healthchecks

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.health;uses:="com.codahale.metrics";version="4.1.11",com.codahale.metrics.health.annotation;version="4.1.11",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.health,com.codahale.metrics.jvm";version="4.1.11"

Implementation-Title: Metrics Health Checks

Implementation-Version: 4.1.11

Import-Package: com.codahale.metrics;resolution:=optional;version="[4.1,5)",com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.jvm;resolution:=optional;version="[4.1,5)",org.slf4j;version="[1.6.0,2.0.0)"

Private-Package: com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.health.jvm

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130506\_1654768535.3386562/0/metrics-healthchecks-4-1-11-5-jar/META-INF/MANIFEST.MF

# 1.304 wire-protocol-buffer-runtime 3.7.0

## 1.304.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent



to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.305 micronaut-azure 3.2.3

## 1.305.1 Available under license :

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,  
"control" means (i) the power, direct or indirect, to cause the  
direction or management of such entity, whether by contract or  
otherwise, or (ii) ownership of fifty percent (50%) or more of the  
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity  
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,  
including but not limited to software source code, documentation  
source, and configuration files.

"Object" form shall mean any form resulting from mechanical  
transformation or translation of a Source form, including but  
not limited to compiled object code, generated documentation,  
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or  
Object form, made available under the License, as indicated by a  
copyright notice that is included in or attached to the work  
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.306 dropwizard 2.0.28

## 1.306.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.



"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.307 jdbi3-jackson2 3.27.2

## 1.307.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

- \* Licensed under the Apache License, Version 2.0 (the "License");
- \* you may not use this file except in compliance with the License.
- \* You may obtain a copy of the License at
- \*

```
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1341639944_1654785848.7246685/0/jdbi3-jackson2-3-27-2-sources-
jar/org/jdbi/v3/jackson2/JacksonJsonMapper.java
* /opt/cola/permits/1341639944_1654785848.7246685/0/jdbi3-jackson2-3-27-2-sources-
jar/org/jdbi/v3/jackson2/Jackson2Config.java
* /opt/cola/permits/1341639944_1654785848.7246685/0/jdbi3-jackson2-3-27-2-sources-
jar/org/jdbi/v3/jackson2/Jackson2Plugin.java
```

No license file was found, but licenses were detected in source scan.

```
<!--
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->
```

Found in path(s):

```
* /opt/cola/permits/1341639944_1654785848.7246685/0/jdbi3-jackson2-3-27-2-sources-jar/META-
INF/maven/org.jdbi/jdbi3-jackson2/pom.xml
```

## 1.308 micronaut-email 1.2.1

### 1.308.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2017-2021 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
```

\*  
\* <https://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/AsyncEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/StringBody.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/validation/RecipientsUtils.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/configuration/FromConfigurationProperties.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/MultipartBody.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/FromDecorator.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/BodyType.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/validation/AnyRecipientConstraintValidatorFactory.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/configuration/FromConfiguration.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/TrackLinks.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/AsyncTransactionalEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/validation/EmailMessages.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/DefaultAsyncEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/EmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/EmailDecorator.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/EmailComposer.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/TransactionalEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/validation/AnyRecipient.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-

jar/io/micronaut/email/Email.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/Contact.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/Body.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/Attachment.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/EmailException.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/AbstractTransactionalEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/DefaultEmailSender.java  
\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-  
jar/io/micronaut/email/validation/Recipients.java

## 1.309 apache-kafka 2.8.1

### 1.309.1 Available under license :

Apache Kafka

Copyright 2021 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

This distribution has a binary dependency on jersey, which is available under the CDDL  
License. The source code of jersey can be found at <https://github.com/jersey/jersey/>.

The streams-scala (streams/streams-scala) module was donated by Lightbend and the original code was copyrighted  
by them:

Copyright (C) 2018 Lightbend Inc. <<https://www.lightbend.com>>

Copyright (C) 2017-2018 Alexis Seigneurin.

This project contains the following code copied from Apache Hadoop:

clients/src/main/java/org/apache/kafka/common/utils/PureJavaCrc32C.java

Some portions of this file Copyright (c) 2004-2006 Intel Corporation and licensed under the BSD license.

This project contains the following code copied from Apache Hive:

streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to



communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

# 1.310 perfmark-perfmark-api 0.23.0

## 1.310.1 Available under license :

Copyright 2019 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-----  
This product contains a modified portion of 'Catapult', an open source Trace Event viewer for Chrome, Linux, and Android applications, which can be obtained at:

\* LICENSE:

\* [traceviewer/src/main/resources/io/perfmark/traceviewer/third\\_party/catapult/LICENSE](#) (New BSD License)

\* HOMEPAGE:

\* <https://github.com/catapult-project/catapult>

This product contains a modified portion of 'Polymer', a library for Web Components, which can be obtained at:

\* LICENSE:

\* [traceviewer/src/main/resources/io/perfmark/traceviewer/third\\_party/polymer/LICENSE](#) (New BSD License)

\* HOMEPAGE:

\* <https://github.com/Polymer/polymer>

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice,

this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of catapult nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.



## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

// Copyright (c) 2012 The Polymer Authors. All rights reserved.

//

// Redistribution and use in source and binary forms, with or without  
// modification, are permitted provided that the following conditions are  
// met:

//

// \* Redistributions of source code must retain the above copyright  
// notice, this list of conditions and the following disclaimer.

// \* Redistributions in binary form must reproduce the above  
// copyright notice, this list of conditions and the following disclaimer  
// in the documentation and/or other materials provided with the  
// distribution.

// \* Neither the name of Google Inc. nor the names of its  
// contributors may be used to endorse or promote products derived from  
// this software without specific prior written permission.

//

// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS  
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT  
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE  
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/\*

\* Copyright 2019 Google LLC

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

## 1.311 commons-compress 1.21

### 1.311.1 Available under license :

Apache Commons Compress

Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<https://www.apache.org/>).

---

The files in the package `org.apache.commons.compress.archivers.sevenz`  
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),  
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (<http://www.7-zip.org/sdk.html>)

---

The test file `lbzip2_32767.bz2` has been copied from `libbzip2`'s source  
repository:

This program, "bzip2", the associated library "libbzip2", and all  
documentation, are copyright (C) 1996-2019 Julian R Seward. All  
rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, [jseward@acm.org](mailto:jseward@acm.org)  
Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.312 jvm-integration-for-metrics 4.0.5

## 1.312.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Bnd-LastModified: 1545937890888  
Build-Jdk: 1.8.0\_191  
Built-By: artem  
Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: JVM Integration for Metrics  
Bundle-SymbolicName: io.dropwizard.metrics.jvm  
Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.0.5"  
Implementation-Title: JVM Integration for Metrics  
Implementation-URL: <http://metrics.dropwizard.io/metrics-jvm>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;resolution:=optional,com.codahale.metrics;version="[4.0,5)",javax.management  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274701574\_1648835908.24/0/metrics-jvm-4-0-5-jar/META-INF/MANIFEST.MF

## 1.313 junit-5-bill-of-materials 5.8.2

### 1.313.1 Available under license :

```
import java.io.File
import java.net.URI

data class License(val name: String, val url: URI, val headerFile: File)
Apache License
=====

Version 2.0, January 2004
<<https://www.apache.org/licenses/>>>

Terms and Conditions for use, reproduction, and distribution

1. Definitions
```



License shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

Licensors shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

Legal Entity shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, control means **(i)** the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or **(ii)** ownership of fifty percent (50%) or more of the outstanding shares, or **(iii)** beneficial ownership of such entity.

You (or Your) shall mean an individual or Legal Entity exercising permissions granted by this License.

Source form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

Object form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

Work shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

Derivative Works shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

Contribution shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensors for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, submitted means any form of electronic, verbal, or written communication sent to the Licensors or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensors for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as Not a Contribution.

Contributor shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

#### #### 2. Grant of Copyright License

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

#### #### 3. Grant of Patent License

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

#### #### 4. Redistribution

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- \* **(a)** You must give any other recipients of the Work or Derivative Works a copy of this License; and
- \* **(b)** You must cause any modified files to carry prominent notices stating that You changed the files; and
- \* **(c)** You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- \* **(d)** If the Work includes a NOTICE text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative

Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### #### 5. Submission of Contributions

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### #### 6. Trademarks

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### #### 7. Disclaimer of Warranty

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### #### 8. Limitation of Liability

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to

damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### #### 9. Accepting Warranty or Additional Liability

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Eclipse Public License - v 2.0

=====

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE (AGREEMENT). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### ### 1. Definitions

Contribution means:

- \* \*\*a)\*\* in the case of the initial Contributor, the initial content Distributed under this Agreement, and
- \* \*\*b)\*\* in the case of each subsequent Contributor:
  - \* \*\*i)\*\* changes to the Program, and
  - \* \*\*j)\*\* additions to the Program;

where such changes and/or additions to the Program originate from and are Distributed by that particular Contributor. A Contribution originates from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include changes or additions to the Program that are not Modified Works.

Contributor means any person or entity that Distributes the Program.

Licensed Patents mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

Program means the Contributions Distributed in accordance with this Agreement.

Recipient means anyone who receives the Program under this Agreement or any Secondary License (as applicable), including Contributors.

Derivative Works shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

Modified Works shall mean any work in Source Code or other form that results from an addition to, deletion from,

or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified Works thereof.

Distribute means the acts of **\*\*a)\*\*** distributing or **\*\*b)\*\*** making available in any manner that enables the transfer of a copy.

Source Code means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

Secondary License means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

### ### 2. Grant of Rights

**\*\*a)\*\*** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, Distribute and sublicense the Contribution of such Contributor, if any, and such Derivative Works.

**\*\*b)\*\*** Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

**\*\*c)\*\*** Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

**\*\*d)\*\*** Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

**\*\*e)\*\*** Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

### ### 3. Requirements

**\*\*3.1)\*\*** If a Contributor Distributes the Program in any form, then:

\* **\*\*a)\*\*** the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under

this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

\* \*\*b)\*\*\* the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

\* \*\*i)\*\*\* effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

\* \*\*ii)\*\*\* effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

\* \*\*iii)\*\*\* does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

\* \*\*iv)\*\*\* requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

\*\*3.2\*\* When the Program is Distributed as Source Code:

\* \*\*a)\*\*\* it must be made available under this Agreement, or if the Program \*(i)\* is combined with other material in a separate file or files made available under a Secondary License, and \*(ii)\* the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

\* \*\*b)\*\*\* a copy of this Agreement must be included with each copy of the Program.

\*\*3.3\*\* Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (notices) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

#### ### 4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (Commercial Contributor) hereby agrees to defend and indemnify every other Contributor (Indemnified Contributor) against any losses, damages and costs (collectively Losses) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: \*\*a)\*\* promptly notify the Commercial Contributor in writing of such claim, and \*\*b)\*\* allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

### ### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

### ### 6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### ### 7. General

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the

Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

#### #### Exhibit A - Form of Secondary Licenses Notice

> This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}.

Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Apache License

=====

\_Version 2.0, January 2004\_

\_&lt;<<https://www.apache.org/licenses/>>>&gt;\_

#### ### Terms and Conditions for use, reproduction, and distribution

##### #### 1. Definitions

License shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

Licensor shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

Legal Entity shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, control means **(i)** the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or **(ii)** ownership of fifty percent (50%) or more of the outstanding shares, or **(iii)** beneficial ownership of such entity.

You (or Your) shall mean an individual or Legal Entity exercising permissions granted by this License.

Source form shall mean the preferred form for making modifications, including



but not limited to software source code, documentation source, and configuration files.

Object form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

Work shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

Derivative Works shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

Contribution shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, submitted means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as Not a Contribution.

Contributor shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

#### #### 2. Grant of Copyright License

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

#### #### 3. Grant of Patent License

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have

made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

#### #### 4. Redistribution

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- \* **(a)** You must give any other recipients of the Work or Derivative Works a copy of this License; and
- \* **(b)** You must cause any modified files to carry prominent notices stating that You changed the files; and
- \* **(c)** You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- \* **(d)** If the Work includes a NOTICE text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

#### #### 5. Submission of Contributions

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and

conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

#### #### 6. Trademarks

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

#### #### 7. Disclaimer of Warranty

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### #### 8. Limitation of Liability

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### #### 9. Accepting Warranty or Additional Liability

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

### ### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets `[]` replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same printed page as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Open Source Licenses

=====

This product may include a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the subcomponent's license, as noted in the LICENSE-<subcomponent>.md files.

[[contributors]]

== Contributors

Browse the {junit5-repo}/graphs/contributors[current list of contributors] directly on GitHub.

## 1.314 io-grpc-grpc-core 1.39.0

### 1.314.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2020 Istio Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.



See the License for the specific language governing permissions and limitations under the License.

Envoy

Copyright 2016-2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner].

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

protoc-gen-validate

Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

zero-allocation-hashing

Copyright 2015 Higher Frequency Trading <http://www.higherfrequencytrading.com>

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this



License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/\*

\* Copyright 2015 The gRPC Authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

-----  
This product contains a modified portion of 'OkHttp', an open source  
HTTP & SPDY client for Android and Java applications, which can be obtained  
at:

- \* LICENSE:
  - \* [okhttp/third\\_party/okhttp/LICENSE](http://okhttp/third_party/okhttp/LICENSE) (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/square/okhttp>
- \* LOCATION\_IN\_GRPC:
  - \* [okhttp/third\\_party/okhttp](http://okhttp/third_party/okhttp)

This product contains a modified portion of 'Envoy', an open source  
cloud-native high-performance edge/middle/service proxy, which can be  
obtained at:

- \* LICENSE:
  - \* [xds/third\\_party/envoy/LICENSE](http://xds/third_party/envoy/LICENSE) (Apache License 2.0)
- \* NOTICE:
  - \* [xds/third\\_party/envoy/NOTICE](http://xds/third_party/envoy/NOTICE)
- \* HOMEPAGE:
  - \* <https://www.envoyproxy.io>
- \* LOCATION\_IN\_GRPC:
  - \* [xds/third\\_party/envoy](http://xds/third_party/envoy)

This product contains a modified portion of 'protoc-gen-validate (PGV)',  
an open source protoc plugin to generate polyglot message validators,  
which can be obtained at:

- \* LICENSE:
  - \* [xds/third\\_party/protoc-gen-validate/LICENSE](http://xds/third_party/protoc-gen-validate/LICENSE) (Apache License 2.0)
- \* NOTICE:
  - \* [xds/third\\_party/protoc-gen-validate/NOTICE](http://xds/third_party/protoc-gen-validate/NOTICE)

- \* HOMEPAGE:
  - \* <https://github.com/envoyproxy/protoc-gen-validate>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/protoc-gen-validate

This product contains a modified portion of 'udpa',  
an open source universal data plane API, which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/udpa/LICENSE (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/cncf/udpa>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/udpa

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.315 micronaut-tracing 4.1.1

## 1.315.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2017-2022 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/interceptor/TraceInterceptor.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/HttpHeadersTextMap.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisher.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/package-info.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisherUtils.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/SpanTag.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/package-info.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TracingExclusionsConfiguration.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/OpenTracingClientFilter.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/OpenTracingInvocationInstrumenter.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/package-info.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingObserver.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/kotlin/HttpCoroutineTracingDispatcherFactory.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/package-info.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/MdcInstrumenter.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/NewSpan.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/interceptor/package-info.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingCorePublisher.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TraceRequestAttributes.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/AbstractOpenTracingFilter.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/kotlin/CoroutineTracingDispatcher.kt

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/ScopePropagationPublisher.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingInvocationInstrumenterFactory.java

\* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/package-info.java



```
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/util/ThreadTracingInvocationInstrumenterFactory.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/annotation/ContinueSpan.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/DefaultTracer.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/http/OpenTracingServerFilter.java
```

No license file was found, but licenses were detected in source scan.

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/META-
INF/native-image/io.micronaut.tracing/tracing-core/native-image.properties
```

# 1.316 opentelemetry-java 1.9.1-alpha

## 1.316.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.317 open-telemetry/opentelemetry-java

## 1.14.0

### 1.317.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2014 The gRPC Authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

- \* <http://www.apache.org/licenses/LICENSE-2.0>
- \*
- \* Unless required by applicable law or agreed to in writing, software
- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*/

Found in path(s):

\* /opt/cola/permits/1343419668\_1655584013.3890648/0/opentelemetry-exporter-otlp-common-1-14-0-sources-jar/io/opentelemetry/exporter/internal/grpc/OkHttpGrpcExporter.java

\* /opt/cola/permits/1343419668\_1655584013.3890648/0/opentelemetry-exporter-otlp-common-1-14-0-sources-jar/io/opentelemetry/exporter/internal/grpc/MarshalerInputStream.java

No license file was found, but licenses were detected in source scan.

```
// Copyright 2008 Google Inc. All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// * Neither the name of Google Inc. nor the names of its
// this software without specific prior written permission.
```

Found in path(s):

\* /opt/cola/permits/1343419668\_1655584013.3890648/0/opentelemetry-exporter-otlp-common-1-14-0-sources-jar/io/opentelemetry/exporter/internal/marshal/CodedOutputStream.java

\* /opt/cola/permits/1343419668\_1655584013.3890648/0/opentelemetry-exporter-otlp-common-1-14-0-sources-jar/io/opentelemetry/exporter/internal/marshal/CodedInputStream.java

\* /opt/cola/permits/1343419668\_1655584013.3890648/0/opentelemetry-exporter-otlp-common-1-14-0-sources-jar/io/opentelemetry/exporter/internal/marshal/WireFormat.java

## 1.318 opentelemetry-java---

# io.opentelemetry:opentelemetry-sdk-metrics

## 1.14.0

### 1.318.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

## 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or

Object form.

### 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

### 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing



the content of the NOTICE file.

#### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

#### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

#### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.319 duct-tape 1.0.8

## 1.319.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Richard North

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.320 io.grpc:grpc-bom 1.39.0

## 1.320.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2020 Istio Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Envoy

Copyright 2016-2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and



do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner].

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

protoc-gen-validate

Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

zero-allocation-hashing

Copyright 2015 Higher Frequency Trading <http://www.higherfrequencytrading.com>

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/\*

\* Copyright 2015 The gRPC Authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-----  
This product contains a modified portion of 'OkHttp', an open source HTTP & SPDY client for Android and Java applications, which can be obtained at:

\* LICENSE:

\* [okhttp/third\\_party/okhttp/LICENSE](http://okhttp/third_party/okhttp/LICENSE) (Apache License 2.0)

\* HOMEPAGE:

\* <https://github.com/square/okhttp>

\* LOCATION\_IN\_GRPC:

\* [okhttp/third\\_party/okhttp](http://okhttp/third_party/okhttp)

This product contains a modified portion of 'Envoy', an open source cloud-native high-performance edge/middle/service proxy, which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/envoy/LICENSE (Apache License 2.0)
- \* NOTICE:
  - \* xds/third\_party/envoy/NOTICE
- \* HOMEPAGE:
  - \* <https://www.envoyproxy.io>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)', an open source protoc plugin to generate polyglot message validators, which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/protoc-gen-validate/LICENSE (Apache License 2.0)
- \* NOTICE:
  - \* xds/third\_party/protoc-gen-validate/NOTICE
- \* HOMEPAGE:
  - \* <https://github.com/envoyproxy/protoc-gen-validate>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/protoc-gen-validate

This product contains a modified portion of 'udpa', an open source universal data plane API, which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/udpa/LICENSE (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/cncf/udpa>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/udpa

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by



the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.321 metrics-core 4.1.29

## 1.321.1 Available under license :

Apache-2.0

# 1.322 hystrix-core 1.5.18

## 1.322.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the

Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works

as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.323 micronaut-redis 5.2.0

## 1.323.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2017-2020 original authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <https://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/



Found in path(s):

- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AsyncCacheCommands.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/health/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCache.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/EmbeddedRedisServer.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ExpirationAfterWritePolicy.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisServersConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AbstractRedisCacheConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisSetting.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ConstantExpirationAfterWritePolicy.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCacheConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisHttpSessionConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisClientFactory.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/DefaultRedisCacheConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisClientFactory.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisClientFactory.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/SyncCacheCommands.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisConnectionUtil.java

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/session/RedisSessionStore.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/DefaultRedisClusterClientFactory.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/session/RedisSessionCommands.java
No license file was found, but licenses were detected in source scan.
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/META-
INF/native-image/io.micronaut.redis/redis-lettuce/native-image.properties
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2017-2021 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ClientResourcesMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/MetricsClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ThreadPoolClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/health/RedisHealthIndicator.java
```

## 1.324 jackson-databind 2.13.3

## 1.324.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0. To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.325 com.helger:profiler 1.1.1

## 1.325.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>The Apache License, Version 2.0</name>  
<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

Found in path(s):

\* /opt/cola/permits/1293853635\_1649177431.36/0/profiler-1-1-1-jar/META-INF/maven/com.helger/profiler/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Automatic-Module-Name: com.papertrail.profiler  
Bnd-LastModified: 1563722217801  
Build-Jdk: 1.8.0\_202  
Built-By: philip

Bundle-Description: A pure-java implementation of the twitter/util project's `CpuProfile` and related classes.  
Bundle-DocURL: <http://www.helger.com>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: com.helger:profiler  
Bundle-SymbolicName: com.helger.profiler  
Bundle-Vendor: Philip Helger  
Bundle-Version: 1.1.1  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.papertrail.profiler;version="1.1.1",com.papertrail.profiler.jaxrs;uses:="javax.ws.rs";version="1.1.1"  
Implementation-Title: com.helger:profiler  
Implementation-URL: <https://github.com/phax/profiler>  
Implementation-Vendor: Philip Helger  
Implementation-Vendor-Id: com.helger  
Implementation-Version: 1.1.1  
Import-Package: com.papertrail.profiler,javax.ws.rs;version="[2.1,3)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-4.1.0.201810181252

Found in path(s):

\* /opt/cola/permits/1293853635\_1649177431.36/0/profiler-1-1-1-jar/META-INF/MANIFEST.MF

# 1.326 rxjersey 0.9.0

## 1.326.1 Available under license :

MIT License

Copyright (c) 2016 Alex Shpak

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE



# 1.327 hdrhistogram 2.1.12

## 1.327.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1575980548657

Build-Jdk: 1.8.0\_232

Built-By: gil

Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.

Bundle-License: <http://creativecommons.org/publicdomain/zero/1.0/>, <https://opensource.org/licenses/BSD-2-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: HdrHistogram

Bundle-SymbolicName: org.hdrhistogram.HdrHistogram

Bundle-Version: 2.1.12

Created-By: Apache Maven Bundle Plugin

Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagedarray;version="2.1.12"

Implementation-Title: HdrHistogram

Implementation-Vendor-Id: org.hdrhistogram

Implementation-Version: 2.1.12

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Specification-Title: HdrHistogram

Specification-Version: 2.1.12

Tool: Bnd-2.3.0.201405100607

Found in path(s):

\* /opt/cola/permits/1185944801\_1628011594.04/0/hdrhistogram-2-1-12-3-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

\* public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/>  
<name>Public Domain, per Creative Commons CC0</name>

Found in path(s):

\* /opt/cola/permits/1185944801\_1628011594.04/0/hdrhistogram-2-1-12-3-jar/META-INF/maven/org.hdrhistogram/HdrHistogram/pom.xml

# 1.328 profiler 1.0.2

## 1.328.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 G4 Code

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.329 scala 2.12.13

## 1.329.1 Available under license :

Scala

Copyright (c) 2002-2020 EPFL

Copyright (c) 2011-2020 Lightbend, Inc.

Scala includes software developed at  
LAMP/EPFL (<https://lamp.epfl.ch/>) and  
Lightbend, Inc. (<https://www.lightbend.com/>).

Licensed under the Apache License, Version 2.0 (the "License").  
Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.  
Scala is licensed under the [Apache License Version 2.0](<https://www.apache.org/licenses/LICENSE-2.0>).

## Scala License

Copyright (c) 2002-2020 EPFL

Copyright (c) 2011-2020 Lightbend, Inc.

All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

#### # Other Licenses

This software includes projects with the following licenses,  
which are also included in the `licenses/`` directory:

### [Apache License](<http://www.apache.org/licenses/LICENSE-2.0.html>)

This license is used by the following third-party libraries:

- \* jansi

### [BSD License](<http://www.opensource.org/licenses/bsd-license.php>)

This license is used by the following third-party libraries:

- \* jline

### [BSD 3-Clause License](<http://opensource.org/licenses/BSD-3-Clause>)

This license is used by the following third-party libraries:

- \* asm

### [MIT License](<http://www.opensource.org/licenses/MIT>)

This license is used by the following third-party libraries:

- \* jQuery

- \* tools tooltip

Scala includes the JLine library:

Copyright (c) 2002-2006, Marc Prud'hommeaux <[mwp1@cornell.edu](mailto:mwp1@cornell.edu)>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
{% if site.thisScalaVersion != site.latestScalaVersion %}
<div class="version-notice">This is the specification of a previous version of Scala. See the <a href="{{
site.baseurl}}/../{{ site.latestScalaVersion }}/">Scala {{ site.latestScalaVersion }} spec.</div>
{% endif %}
```

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.  
Scala includes the ASM library.

Copyright (c) 2000-2011 INRIA, France Telecom  
All rights reserved.



Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
 ^
```

three errors found

Scala includes the Tools Tooltip library:

Copyright (c) 2009 Tero Piirainen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

Scala includes the jQuery library:

Copyright JS Foundation and other contributors, <https://js.foundation/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(c) 2012-2014 GitHub

When using the GitHub logos, be sure to follow the GitHub logo guidelines (<https://github.com/logos>)

Font License: SIL OFL 1.1 (<http://scripts.sil.org/OFL>)

Applies to all font files

Code License: MIT (<http://choosealicense.com/licenses/mit/>)

Applies to all other files

Copyright (c) 2006, Ivan Sagalaev

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of highlight.js nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Scala includes the JLine library, which includes the Jansi library.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

(The MIT License)

Copyright (c) 2013 Greg Allen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.330 jackson-module-scala 2.13.3

## 1.330.1 Available under license :

This copy of Jackson JSON processor Scala module is licensed under the Apache (Software) License, version 2.0 ("the License").  
See the License for details about distribution rights, and the specific rights regarding derivative works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

# 1.331 docker-java-transport-zero-dep 3.2.12

## 1.331.1 Available under license :

Apache Commons Codec  
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`  
contains test data from <http://aspell.net/test/orig/batch0.tab>.  
Copyright (C) 2002 Kevin Atkinson ([kevina@gnu.org](mailto:kevina@gnu.org))

=====

The content of package `org.apache.commons.codec.language.bm` has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

Original source copyright:  
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

Apache HttpClient  
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.



"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

# 1.332 commons-io 2.11.0

## 1.332.1 Available under license :

Apache Commons IO  
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.



To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.333 jackson-jaxrs-base 2.13.3

### 1.333.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License").  
See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

## 1.334 java-classmate classmate-1.5.1

### 1.334.1 Available under license :

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

This copy of Java ClassMate library is licensed under Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.335 classgraph 4.8.65

### 1.335.1 Available under license :

The MIT License (MIT)

Copyright (c) 2019 Luke Hutchison

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all  
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR  
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE  
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER  
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
SOFTWARE.

## 1.336 micronaut-servlet 3.2.2

### 1.336.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2017-2020 original authors

\*  
\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <https://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletCookies.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseFactory.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/StreamFileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestBinder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/StreamedServletMessage.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpHandler.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBodyBinder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestAndBody.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/DefaultServletExchange.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletExchange.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/AbstractFileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/FileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpResponse.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBinderRegistry.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpRequest.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-

# 1.337 asm-tree 7.2

## 1.337.1 Available under license :

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



# 1.338 zstd-jni 1.4.9-1

## 1.338.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1615191527618

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64, darwin/x86\_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni.so;osname=Linux;processor=arm, linux/i386/libzstd-jni.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.4.9.1

Created-By: 1.8.0\_275 (Debian)

Export-Package: com.github.luben.zstd;version="1.4.9.1",com.github.luben.zstd.util;version="1.4.9.1"

Implementation-Title: zstd-jni

Implementation-Vendor: com.github.luben

Implementation-Vendor-Id: com.github.luben

Implementation-Version: 1.4.9-1

Import-Package: org.osgi.framework;resolution:=optional

Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,aix.ppc64,darwin.x86\_64,darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Specification-Title: zstd-jni

Specification-Vendor: com.github.luben

Specification-Version: 1.4.9-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1183892379\_1627494642.79/0/zstd-jni-1-4-9-1-1-jar/META-INF/MANIFEST.MF

# 1.339 kotlin 1.6.10

## 1.339.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
{ "version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/CharCode_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math_js-v1.kt","src/kotlin/numbers_js-v1.kt","src/kotlin/reflection_js-v1.kt","src/kotlin/text/numberConversions_js-v1.kt","js/src/generated/_CharCategories.kt","js/src/generated/_CollectionsJs.kt","js/src/generated/_DigitChars.kt","js/src/generated/_LetterChars.kt","js/src/generated/_OtherLowercaseChars.kt","js/src/generated/_OtherUppercaseChars.kt","js/src/generated/_StringsJs.kt","js/src/generated/_TitlecaseMappings.kt","js/src/generated/_UArraysJs.kt","js/src/generated/_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashCodeMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt"
```

, "js/src/kotlin/concurrent.kt", "js/src/kotlin/console.kt", "js/src/kotlin/coroutines/SafeContinuationJs.kt", "js/src/kotlin/coroutines/cancellation/CancellationException.kt", "js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt", "js/src/kotlin/date.kt", "js/src/kotlin/dom/Builders.kt", "js/src/kotlin/dom/Classes.kt", "js/src/kotlin/dom/Dom.kt", "js/src/kotlin/dom/EventListener.kt", "js/src/kotlin/dom/ItemArrayLike.kt", "js/src/kotlin/dom/Mutations.kt", "js/src/kotlin/dynamic.kt", "js/src/kotlin/exceptionUtils.kt", "js/src/kotlin/grouping.kt", "src/kotlin/collections/Grouping.kt", "js/src/kotlin/jsOn.kt", "js/src/kotlin/math.kt", "js/src/kotlin/numbers.kt", "js/src/kotlin/promise.kt", "js/src/kotlin/random/PlatformRandom.kt", "js/src/kotlin/reflect/AssociatedObjects.kt", "js/src/kotlin/reflect/JsClass.kt", "js/src/kotlin/reflect/KClassImpl.kt", "js/src/kotlin/reflect/KClassesImpl.kt", "js/src/kotlin/reflect/KTypeHelpers.kt", "js/src/kotlin/reflect/KTypeImpl.kt", "js/src/kotlin/reflect/KTypeParameterImpl.kt", "js/src/kotlin/reflect/primitives.kt", "js/src/kotlin/reflect/reflection.kt", "js/src/kotlin/regexp.kt", "js/src/kotlin/sequence.kt", "js/src/kotlin/text/CharCategoryJS.kt", "js/src/kotlin/text/CharacterCodingExceptionJs.kt", "js/src/kotlin/text/StringBuilderJs.kt", "js/src/kotlin/text/numberConversions.kt", "js/src/kotlin/text/regex.kt", "src/kotlin/text/StringBuilder.kt", "js/src/kotlin/text/stringsCode.kt", "js/src/kotlin/text/utf8Encoding.kt", "js/src/kotlin/throwableExtensions.kt", "js/src/kotlin/time/DurationJs.kt", "js/src/kotlin/time/DurationUnit.kt", "js/src/kotlin/time/MonoTimeSource.kt", "js/src/kotlinx/dom/Builders.kt", "js/src/kotlinx/dom/Classes.kt", "src/kotlin/text/regex/RegexExtensions.kt", "js/src/kotlinx/dom/Dom.kt", "js/src/kotlinx/dom/Mutations.kt", "js/src/org.w3c/deprecated.kt", "js/src/org.w3c/org.khronos.webgl.kt", "js/src/org.w3c/org.w3c.dom.clipboard.kt", "js/src/org.w3c/org.w3c.dom.css.kt", "js/src/org.w3c/org.w3c.dom.encryptedmedia.kt", "js/src/org.w3c/org.w3c.dom.events.kt", "js/src/org.w3c/org.w3c.dom.kt", "js/src/org.w3c/org.w3c.fetch.kt", "js/src/org.w3c/org.w3c.dom.mediacapture.kt", "js/src/org.w3c/org.w3c.dom.mediasource.kt", "js/src/org.w3c/org.w3c.dom.pointerevents.kt", "js/src/org.w3c/org.w3c.dom.svg.kt", "js/src/org.w3c/org.w3c.files.kt", "js/src/org.w3c/org.w3c.notifications.kt", "js/src/org.w3c/org.w3c.workers.kt", "js/src/org.w3c/org.w3c.xhr.kt", "src/kotlin/annotations/Experimental.kt", "src/kotlin/annotations/ExperimentalStdlibApi.kt", "src/kotlin/annotations/Inference.kt", "src/kotlin/annotations/Multiplatform.kt", "src/kotlin/annotations/OptIn.kt", "src/kotlin/collections/AbstractCollection.kt", "src/kotlin/collections/AbstractIterator.kt", "src/kotlin/collections/AbstractList.kt", "src/kotlin/collections/AbstractMap.kt", "src/kotlin/collections/AbstractSet.kt", "src/kotlin/collections/ArrayDeque.kt", "src/kotlin/collections/Arrays.kt", "src/kotlin/collections/BrittleContainsOptimization.kt", "src/kotlin/collections/IndexedValue.kt", "src/kotlin/collections/MapAccessors.kt", "src/kotlin/collections/MapWithDefault.kt", "src/kotlin/collections/MutableCollections.kt", "src/kotlin/collections/ReversedViews.kt", "src/kotlin/collections/SequenceBuilder.kt", "src/kotlin/collections/SlidingWindow.kt", "src/kotlin/collections/UArraySorting.kt", "src/kotlin/comparisons/compareTo.kt", "src/kotlin/contracts/ContractBuilder.kt", "src/kotlin/coroutines/ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImpl.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experimental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/properties/Interfaces.kt", "src/kotlin/properties/ObservableProperty.kt", "src/kotlin/properties/PropertyReferenceDelegates.kt", "src/kotlin/random/Random.kt", "src/kotlin/random/URandom.kt", "src/kotlin/random/XorWowRandom.kt", "src/kotlin/ranges/Ranges.kt", "src/kotlin/reflect/KClasses.kt", "src/kotlin/reflect/KTypeProjection.kt", "src/kotlin/reflect/KVariance.kt", "src/kotlin/reflect/typeOf.kt", "src/kotlin/text/Appendable.kt", "src/kotlin/text/Indent.kt", "src/kotlin/text/Typography.kt", "src/kotlin/text/regex/MatchResult.kt", "src/kotlin/time/DurationUnit.kt", "src/kotlin/time/ExperimentalTime.kt", "src/kotlin/time/TimeSource.kt", "src/kotlin/time/TimeSources.kt", "src/kotlin/time/measureTime.kt", "src/kotlin/util/DeepRecursive.kt", "src/kotlin/util/FloorDivMod.kt", "src/kotlin/util/HashCode.kt", "src/kotlin/util/KotlinVersion.kt", "src/kotlin/util/Lateinit.kt", "src/kotlin/util/Lazy.kt", "src/kotlin/util/Numbers.kt", "src/kotlin/util/Suspend.kt", "src/kotlin/util/Tuples.kt", "unsigned/src/kotlin/UIntRange.kt", "unsigned/src/kotlin/UIterators.kt", "unsigned/src/kotlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UProgressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotlin/MathH.kt"], "sourcesContent": ["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n root.kotlin = {};\n factory(root.kotlin);\n }\n})(this, function (Kotlin) {\n var \_ = Kotlin;\n insertContent();\n});\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the

```

license/LICENSE.txt file.\n */\n\nKotlin.isArray = function (a) {\n return (Array.isArray(a) || a instanceof
Int8Array) && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isArray = function (a) {\n return a instanceof
Int8Array && a.$type$!== \"BooleanArray\"\n};\n\nKotlin.isShortArray = function (a) {\n return a instanceof
Int16Array\n};\n\nKotlin.isCharArray = function (a) {\n return a instanceof Uint16Array && a.$type$ ===
\"CharArray\"\n};\n\nKotlin.isIntArray = function (a) {\n return a instanceof
Int32Array\n};\n\nKotlin.isFloatArray = function (a) {\n return a instanceof
Float32Array\n};\n\nKotlin.isDoubleArray = function (a) {\n return a instanceof
Float64Array\n};\n\nKotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.$type$ ===
\"LongArray\"\n};\n\nKotlin.isArray = function (a) {\n return Array.isArray(a) &&
!a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n return Array.isArray(a) ||
ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n if (a === null) return \"null\"\n var
toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n return \"[\" +
Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\"\n};\n\nKotlin.arrayDeepToString
= function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals =
function (a, b) {\n if (a === b) {\n return true;\n }\n if (a === null || b === null || !Kotlin.isArrayish(b) ||
a.length !== b.length) {\n return false;\n }\n for (var i = 0, n = a.length; i < n; i++) {\n if
(!Kotlin.equals(a[i], b[i])) {\n return false;\n }\n }\n return true;\n};\n\nKotlin.arrayDeepEquals =
function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode =
function (arr) {\n if (arr === null) return 0\n var result = 1;\n for (var i = 0, n = arr.length; i < n; i++) {\n
result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n }\n return result;\n};\n\nKotlin.arrayDeepHashCode =
function (arr) {\n return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo)\n};\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n f.callableName = name;\n return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n getter.get = getter;\n
getter.set = setter;\n getter.callableName = name;\n return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n
obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n
obj.constructor = obj;\n return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n {\n mutable: { value:
null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KMutableProperty0 }\n },\n
immutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KProperty0 }\n
}\n },\n {\n mutable: { value: null, implementedInterface: function () {\n return
Kotlin.kotlin.reflect.KMutableProperty1 }\n },\n immutable: { value: null, implementedInterface: function
() {\n return Kotlin.kotlin.reflect.KProperty1 }\n }\n }\n];\n\nfunction getPropertyRefMetadata(cache)
{\n if (cache.value === null) {\n cache.value = {\n interfaces: [cache.implementedInterface()],\n
baseClass: null,\n functions: {},\n properties: {},\n types: {},\n staticMembers: {}\n
};\n }\n return cache.value;\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n return
Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n if (a > 2147483647) return

```

```

2147483647;\n if (a < -2147483648) return -2147483648;\n return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n if (a == null) return a;\n if (a instanceof Kotlin.BoxedChar) return a;\n return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n if (a == null) return a;\n return
Kotlin.toChar(a);\n};\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n if (obj1 == null) {\n return obj2 ==
null;\n }\n if (obj2 == null) {\n return false;\n }\n if (obj1 !== obj2) {\n return obj2 !== obj2;\n
}\n if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n return obj1.equals(obj2);\n
}\n if (typeof obj1 === "number" && typeof obj2 === "number") {\n return obj1 === obj2 && (obj1 !==
0 || 1 / obj1 === 1 / obj2);\n }\n return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n if (obj ==
null) {\n return 0;\n }\n var objType = typeof obj;\n if ("object" === objType) {\n return "function"
=== typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n }\n if ("function" === objType) {\n
 return getObjectHashCode(obj);\n }\n if ("number" === objType) {\n return
Kotlin.numberHashCode(obj);\n }\n if ("boolean" === objType) {\n return Number(obj)\n }\n var str
= String(obj);\n return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n if (o == null) {\n
return "null";\n }\n else if (Kotlin.isArrayish(o)) {\n return "["+o+"]";\n }\n else {\n return
o.toString();\n }\n};\n\n/** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol
type once we are on ES6.\n/** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
"__kotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n var hash = (Math.random() * POW_2_32) | 0;\n // Keep
32-bit signed integer.\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {\n value: hash,
enumerable: false });\n }\n return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n var hash = 0;\n for (var i = 0; i < str.length; i++) {\n var code = str.charCodeAt(i);\n hash = (hash * 31 + code) | 0;\n // Keep
it 32-bit.\n }\n return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n"/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure
Library Authors. All Rights Reserved.\n// Licensed under the Apache License, Version 2.0 (the "License");\n//
you may not use this file except in compliance with the License.\n// You may obtain a copy of the License at\n//
http://www.apache.org/licenses/LICENSE-2.0\n// Unless required by applicable law or agreed to in writing,
software\n// distributed under the License is distributed on an "AS-IS" BASIS,\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * \n * The internal representation of a long is the two given signed, 32-bit
values.\n * \n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n
*\n * \n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * \n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a
positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n * \n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\n\nKotlin.Long = function(low, high) {\n /**\n
 * @type {number}\n * @private\n */\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n
 * @type {number}\n * @private\n */\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ =
{\n kind: "class",\n simpleName: "Long",\n interfaces: []\n};\n\n// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n/**\n * A cache
of the Long representations of small integer values.\n * @type {!Object}\n * @private\n */\n\nKotlin.Long.IntCache_

```

```

= {};
Returns a Long representing the given (32-bit) integer value.
@param {number} value The 32-bit integer in question.
@return {!Kotlin.Long} The corresponding Long value.
Kotlin.Long.fromInt = function(value) {
 if (-128 <= value && value < 128) {
 var cachedObj = Kotlin.Long.IntCache_[value];
 if (cachedObj) {
 return cachedObj;
 }
 var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
 if (-128 <= value && value < 128) {
 Kotlin.Long.IntCache_[value] = obj;
 }
 return obj;
 };
Converts this number value to `Long`.
The fractional part, if any, is rounded down towards zero.
Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.
@param {number} value The number in question.
@return {!Kotlin.Long} The corresponding Long value.
Kotlin.Long.fromNumber = function(value) {
 if (isNaN(value)) {
 return Kotlin.Long.ZERO;
 } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
 return Kotlin.Long.MIN_VALUE;
 } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
 return Kotlin.Long.MAX_VALUE;
 } else if (value < 0) {
 return Kotlin.Long.fromNumber(-value).negate();
 } else {
 return new Kotlin.Long(
 (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,
 (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);
 };
Returns a Long representing the 64-bit integer that comes by concatenating the given high and low bits. Each is assumed to use 32 bits.
@param {number} lowBits The low 32-bits.
@param {number} highBits The high 32-bits.
@return {!Kotlin.Long} The corresponding Long value.
Kotlin.Long.fromBits = function(lowBits, highBits) {
 return new Kotlin.Long(lowBits, highBits);
};
Returns a Long representation of the given string, written using the given radix.
@param {string} str The textual representation of the Long.
@param {number=} opt_radix The radix in which the text is written.
@return {!Kotlin.Long} The corresponding Long value.
Kotlin.Long.fromString = function(str, opt_radix) {
 if (str.length == 0) {
 throw Error('number format error: empty string');
 }
 var radix = opt_radix || 10;
 if (radix < 2 || 36 < radix) {
 throw Error('radix out of range: ' + radix);
 }
 if (str.charAt(0) == '-') {
 return Kotlin.Long.fromString(str.substring(1), radix).negate();
 } else if (str.indexOf('-') >= 0) {
 throw Error('number format error: interior "-" character: ' + str);
 }
 // Do several (8) digits each time through the loop, so as to minimize the calls to the very expensive emulated div.
 var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));
 var result = Kotlin.Long.ZERO;
 for (var i = 0; i < str.length; i += 8) {
 var size = Math.min(8, str.length - i);
 var value = parseInt(str.substring(i, i + size), radix);
 if (size < 8) {
 var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
 result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
 } else {
 result = result.multiply(radixToPower).add(Kotlin.Long.fromNumber(value));
 }
 }
 return result;
};
// NOTE: the compiler should inline these constant values below and then remove these variables, so there should be no runtime penalty for these.
Number used repeated below in calculations.
This must appear before the first call to any from* function below.
@type {number}
@private
Kotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;
@type {number}
@private
Kotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;
@type {number}
@private
Kotlin.Long.TWO_PWR_32_DBL_ = Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;
@type {number}
@private
Kotlin.Long.TWO_PWR_31_DBL_ = Kotlin.Long.TWO_PWR_32_DBL_ / 2;
@type {number}
@private
Kotlin.Long.TWO_PWR_48_DBL_ = Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;
@type {number}
@private
Kotlin.Long.TWO_PWR_64_DBL_ = Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_32_DBL_;
@type {number}
@private
Kotlin.Long.TWO_PWR_63_DBL_ = Kotlin.Long.TWO_PWR_64_DBL_ / 2;
@type {!Kotlin.Long}
@private
Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);
@type {!Kotlin.Long}
@private
Kotlin.Long.ONE = Kotlin.Long.fromInt(1);
@type {!Kotlin.Long}
@private
Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);
@type {!Kotlin.Long}
@private
Kotlin.Long.MAX_VALUE = Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);
@type {!Kotlin.Long}

```

```

*\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n/**\n * @type {!Kotlin.Long}\n * @private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n/**\n * @return {number} The value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n/**\n * @return {number} The closest floating-point representation to this value. *\nKotlin.Long.prototype.toNumber = function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n this.getLowBitsUnsigned();\n};\n\n/**\n * @return {number} The 32-bit hashCode of this value.\n */\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n/**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation of this value.\n */\n@override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n if (this.isZero()) {\n return '0';\n }\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n // We need to change the Long value before it can be negated, so we remove\n // the bottom-most digit in this base and then recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n } else {\n return '-' + this.negate().toString(radix);\n }\n }\n // Do several (6) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));\n var rem = this;\n var result = '';\n while (true) {\n var remDiv = rem.div(radixToPower);\n var intVal = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var digits = intVal.toString(radix);\n rem = remDiv;\n if (rem.isZero()) {\n return digits + result;\n } else {\n while (digits.length < 6) {\n digits = '0' + digits;\n }\n result = '' + digits + result;\n }\n }\n};\n\n/**\n * @return {number} The high 32-bits as a signed value. *\nKotlin.Long.prototype.getHighBits = function() {\n return this.high_;\n};\n\n/**\n * @return {number} The low 32-bits as a signed value.\n */\nKotlin.Long.prototype.getLowBits = function() {\n return this.low_;\n};\n\n/**\n * @return {number} The low 32-bits as an unsigned value. *\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >= 0) ?\n this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n/**\n * @return {number} Returns the number of bits needed to represent the absolute\n * value of this Long.\n */\nKotlin.Long.prototype.getNumBitsAbs = function() {\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n return this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n for (var bit = 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n }\n return this.high_ != 0 ? bit + 33 : bit + 1;\n }\n};\n\n/**\n * @return {boolean} Whether this value is zero. *\nKotlin.Long.prototype.isZero = function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n/**\n * @return {boolean} Whether this value is negative. *\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n/**\n * @return {boolean} Whether this value is odd. *\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) == 1;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */\nKotlin.Long.prototype.notEqualsLong = function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n return this.compare(other) <= 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than the other.\n */\nKotlin.Long.prototype.greaterThan = function(other) {\n return this.compare(other) > 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\n return

```

```

this.compare(other) >= 0;\n};\n\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long}
other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n *
the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if (this.equalsLong(other)) {\n
return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg = other.isNegative();\n if (thisNeg &&
!otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg) {\n return 1;\n }\n\n // at this point, the signs are the
same, so subtraction will not overflow\n if (this.subtract(other).isNegative()) {\n return -1;\n } else {\n return
1;\n }\n};\n\n\n/**\n * @return {!Kotlin.Long} The negation of this value. *\nKotlin.Long.prototype.negate =
function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.MIN_VALUE;\n } else
{\n return this.not().add(Kotlin.Long.ONE);\n }\n};\n\n\n\n/**\n * Returns the sum of this and the given Long.\n *
@param {Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given
Long.\n */\nKotlin.Long.prototype.add = function(other) {\n // Divide each number into 4 chunks of 16 bits, and
then sum the chunks.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_
>>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n
var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00
+= a00 + b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &=
0xFFFF;\n c32 += a32 + b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &=
0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n\n/**\n * Returns the
difference of this and the given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return
{!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other)
{\n return this.add(other.negate());\n};\n\n\n\n/**\n * Returns the product of this and the given long.\n * @param
{Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other).negate();\n }\n } else if
(other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float
multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 * b00;\n c48 +=
c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a00 *
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\n c48
&= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n\n\n/**\n * Returns this
Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n if
(other.isZero()) {\n throw Error('division by zero');\n } else if (this.isZero()) {\n return Kotlin.Long.ZERO;\n
}\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n
}\n } else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if
(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :

```



```

Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n }\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n if (this.isNegative()) {\n
if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n return
this.negate().div(other.negate());\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n //
smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n }\n
// We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit,
whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if
it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n var
approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem =
approxRes.multiply(other);\n }\n // We know the answer can't be zero... and actually, zero would cause\n //
infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes =
Kotlin.Long.ONE;\n }\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n }\n return
res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to
mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo =
function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n\n/**\n * @return {!Kotlin.Long} The
bitwise-NOT of this value.\n */\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_,
~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\n
Kotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n *
@param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and
the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ |
other.low_,\nthis.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long
and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return
Kotlin.Long.fromBits(this.low_ ^ other.low_,\nthis.high_ ^ other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of
bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\n
Kotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return
this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return
Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits));\n);\n } else {\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n\n/**\n * Returns this Long with
bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n
* @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight =
function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high
<<< (32 - numBits)),\n high >> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >>
(numBits - 32),\n high >= 0 ? 0 : -1);\n }\n }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right
by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number
of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n *
zeros

```

```

placed into the new leading bits.\n *\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n numBits
&= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n var
low = this.low_;\n return Kotlin.Long.fromBits((low >>> numBits) | (high << (32 - numBits)),\n
high >>> numBits);\n } else if (numBits == 32) {\n return Kotlin.Long.fromBits(high, 0);\n } else {\n
return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n } }\n};\n\n// Support for
Kotlin\nKotlin.Long.prototype.equals = function (other) {\n return other instanceof Kotlin.Long &&
this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n return
this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n return
this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\n\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n/*\n * @param {string} id\n * @param {Object} declaration\n\n
*\n\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n
return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n var f = function() {\n f = fun();\n return
f.apply(this, arguments);\n }; \n return function() {\n return f.apply(this, arguments);\n
};\n};\n\nKotlin.isTypeOf = function(type) {\n return function (object) {\n return typeof object === type;\n
}\n};\n\nKotlin.isInstanceOf = function (klass) {\n return function (object) {\n return Kotlin.isType(object,
klass);\n };\n};\n\nKotlin.orNull = function (fn) {\n return function (object) {\n return object == null ||
fn(object);\n };\n};\n\nKotlin.andPredicate = function (a, b) {\n return function (object) {\n return a(object)
&& b(object);\n };\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data)
{\n};\n\nKotlin.suspendCall = function(value) {\n return value;\n};\n\nKotlin.coroutineResult = function(qualifier)
{\n throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n throw new Error(\n "This marker function
should never be called. \n" +\n "Looks like compiler did not eliminate it properly. \n" +\n "Please, report
an issue if you caught this exception.\n");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n return
function() {\n return defaultValue;\n };\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\nKotlin.compareTo = function (a, b) {\n var typeA = typeof a;\n if
(typeA === "number") {\n if (typeof b === "number") {\n return Kotlin.doubleCompareTo(a, b);\n
}\n return Kotlin.primitiveCompareTo(a, b);\n }\n if (typeA === "string" || typeA === "boolean") {\n
return Kotlin.primitiveCompareTo(a, b);\n }\n return
a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a ===
b) {\n if (a !== 0) return 0;\n\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n
return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n return
Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n var buf = new ArrayBuffer(8);\n var
bufFloat64 = new Float64Array(buf);\n var bufFloat32 = new Float32Array(buf);\n var bufInt32 = new
Int32Array(buf);\n var lowIndex = 0;\n var highIndex = 1;\n\n bufFloat64[0] = -1; // bff00000_00000000\n if
(bufInt32[lowIndex] !== 0) {\n lowIndex = 1;\n highIndex = 0;\n }\n\n Kotlin.doubleToBits =

```

```

function(value) {\n return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n };\n\nKotlin.doubleToRawBits = function(value) {\n bufFloat64[0] = value;\n return\nKotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n };\n\nKotlin.doubleFromBits =\nfunction(value) {\n bufInt32[lowIndex] = value.low_;\n bufInt32[highIndex] = value.high_;\n return\nbufFloat64[0];\n };\n\nKotlin.floatToBits = function(value) {\n return Kotlin.floatToRawBits(isNaN(value)\n? NaN : value);\n };\n\nKotlin.floatToRawBits = function(value) {\n bufFloat32[0] = value;\n return\nbufInt32[0];\n };\n\nKotlin.floatFromBits = function(value) {\n bufInt32[0] = value;\n return\nbufFloat32[0];\n };\n\n// returns zero value for number with positive sign bit and non-zero value for number\nwith negative sign bit.\nKotlin.doubleSignBit = function(value) {\n bufFloat64[0] = value;\n return\nbufInt32[highIndex] & 0x80000000;\n };\n\nKotlin.numberHashCode = function(obj) {\n if ((obj | 0) ===\nobj) {\n return obj | 0;\n }\n else {\n bufFloat64[0] = obj;\n return (bufInt32[highIndex]\n* 31 | 0) + bufInt32[lowIndex] | 0;\n }\n };\n\nKotlin.ensureNotNull = function(x) {\n return x != null\n? x : Kotlin.throwNPE();\n};\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\n\nif (typeof String.prototype.startsWith === "undefined") {\nObject.defineProperty(String.prototype, "startsWith", {\n value: function (searchString, position) {\nposition = position || 0;\n return this.lastIndexOf(searchString, position) === position;\n }\n});\n\nif (typeof String.prototype.endsWith === "undefined") {\n Object.defineProperty(String.prototype, "endsWith",\n{\n value: function (searchString, position) {\n var subjectString = this.toString();\n if (position\n=== undefined || position > subjectString.length) {\n position = subjectString.length;\n }\nposition -= searchString.length;\n var lastIndex = subjectString.indexOf(searchString, position);\nreturn lastIndex !== -1 && lastIndex === position;\n }\n });\n\n// ES6 Math polyfills\nif (typeof Math.sign\n=== "undefined") {\n Math.sign = function(x) {\n x = +x; // convert to a number\n if (x === 0 ||\nisNaN(x)) {\n return Number(x);\n }\n return x > 0 ? 1 : -1;\n };\n\nif (typeof Math.trunc ===\n"undefined") {\n Math.trunc = function(x) {\n if (isNaN(x)) {\n return NaN;\n }\n if (x > 0)\n{\n return Math.floor(x);\n }\n return Math.ceil(x);\n };\n\n(function() {\n var epsilon =\n2.220446049250313E-16;\n var taylor_2_bound = Math.sqrt(epsilon);\n var taylor_n_bound =\nMath.sqrt(taylor_2_bound);\n var upper_taylor_2_bound = 1/taylor_2_bound;\n var upper_taylor_n_bound =\n1/taylor_n_bound;\n\n if (typeof Math.sinh === "undefined") {\n Math.sinh = function(x) {\n if\n(Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result += (x * x * x) / 6;\n }\n return result;\n } else {\n var y =\nMath.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y)) return Math.exp(x - Math.LN2);\n if\n(!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n return (y - y1) / 2;\n }\n };\n\nif (typeof Math.cosh === "undefined") {\n Math.cosh = function(x) {\n var y = Math.exp(x);\n var\ny1 = 1 / y;\n if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n return (y +\ny1) / 2;\n };\n\nif (typeof Math.tanh === "undefined") {\n Math.tanh = function(x) {\n if\n(Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result -= (x * x * x) / 3;\n }\n return result;\n } else {\n var a =\nMath.exp(+x), b = Math.exp(-x);\n return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n }\n };\n\n// Inverse hyperbolic function implementations derived from boost special math functions,\n// Copyright Eric Ford & Hubert Holin 2001.\n\nif (typeof Math.asinh === "undefined") {\n var asinh =\nfunction(x) {\n if (x >= +taylor_n_bound)\n{\n if (x > upper_taylor_n_bound)\n{\n if (x > upper_taylor_2_bound)\n{\n // approximation by laurent series in\n1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n{\n // approximation by laurent series in 1/x at 0+ order from -1 to 1\n return\nMath.log(x * 2 + (1 / (x * 2)));\n }\n }\n else\n{\n return\nMath.log(x + Math.sqrt(x * x + 1));\n }\n }\n else if (x <= -taylor_n_bound)\n{\n return\nMath.log(x + Math.sqrt(x * x + 1));\n }\n else\n{\n // approximation by taylor series in x at 0 up to

```



```

Object.defineProperty(TypedArray.prototype, 'fill', {\n
 value: Array.prototype.fill\n
});\n
if (typeof TypedArray.prototype.slice === "undefined") {\n
 Object.defineProperty(TypedArray.prototype,\n
'slice', {\n
 value: typedArraySlice\n
});\n
}\n
// Patch apply to work with TypedArrays\n
if needed.\n
try {\n
 (function() {}).apply(null, new Int32Array(0))\n
} catch (e) {\n
 var apply =\n
Function.prototype.apply;\n
 Object.defineProperty(Function.prototype, 'apply', {\n
 value: function(self,\n
array) {\n
 return apply.call(this, self, [].slice.call(array));\n
}\n
});\n
}\n
// Patch map to\n
work with TypedArrays if needed.\n
for (var i = 0; i < arrays.length; ++i) {\n
 var TypedArray = arrays[i];\n
 if (typeof TypedArray.prototype.map === "undefined") {\n
 Object.defineProperty(TypedArray.prototype,\n
'map', {\n
 value: function(callback, self) {\n
 return [].slice.call(this).map(callback, self);\n
}\n
});\n
}\n
}\n
// Patch sort to work with TypedArrays if needed.\n
// TODO: consider to\n
remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n
var\n
totalOrderComparator = function (a, b) {\n
 if (a < b) return -1;\n
 if (a > b) return 1;\n
\n
 if (a === b) {\n
 if (a !== 0) return 0;\n
 var ia = 1 / a;\n
 return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n
 }\n
 return a !== a ? (b !== b ? 0 : 1) : -1\n
};\n
for (var i = 0; i < arrays.length; ++i) {\n
 var TypedArray =\n
arrays[i];\n
 if (typeof TypedArray.prototype.sort === "undefined") {\n
 Object.defineProperty(TypedArray.prototype, 'sort', {\n
 value: function(compareFunction) {\n
 return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n
 }\n
 });\n
 }\n
}\n
})\n
);"/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n
 * Use\n
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n
Kotlin.Kind = {\n
 CLASS: "class",\n
 INTERFACE: "interface",\n
 OBJECT:\n
"object"\n
};\n
Kotlin.callGetter = function (thisObject, class, propertyName) {\n
 var propertyDescriptor =\n
Object.getOwnPropertyDescriptor(class, propertyName);\n
 if (propertyDescriptor != null &&\n
propertyDescriptor.get != null) {\n
 return propertyDescriptor.get.call(thisObject);\n
 }\n
 propertyDescriptor =\n
Object.getOwnPropertyDescriptor(thisObject, propertyName);\n
 if (propertyDescriptor != null && "value" in\n
propertyDescriptor) {\n
 return thisObject[propertyName];\n
 }\n
 return Kotlin.callGetter(thisObject,\n
Object.getPrototypeOf(class), propertyName);\n
};\n
Kotlin.callSetter = function (thisObject, class, propertyName,\n
value) {\n
 var propertyDescriptor =\n
Object.getOwnPropertyDescriptor(class, propertyName);\n
 if\n
(propertyDescriptor != null && propertyDescriptor.set != null) {\n
 propertyDescriptor.set.call(thisObject,\n
value);\n
 return;\n
 }\n
 propertyDescriptor =\n
Object.getOwnPropertyDescriptor(thisObject,\n
propertyName);\n
 if (propertyDescriptor != null && "value" in propertyDescriptor) {\n
 thisObject[propertyName] = value;\n
 return;\n
 }\n
 Kotlin.callSetter(thisObject,\n
Object.getPrototypeOf(class), propertyName, value);\n
};\n
function isInheritanceFromInterface(ctor, iface) {\n
 if\n
(ctor === iface) return true;\n
 var metadata = ctor.$metadata$;\n
 if (metadata != null) {\n
 var interfaces =\n
metadata.interfaces;\n
 for (var i = 0; i < interfaces.length; i++) {\n
 if\n
(isInheritanceFromInterface(interfaces[i], iface)) {\n
 return true;\n
 }\n
 }\n
 }\n
 var\n
superPrototype = ctor.prototype != null ?\n
Object.getPrototypeOf(ctor.prototype) : null;\n
 var superConstructor =\n
superPrototype != null ?\n
superPrototype.constructor : null;\n
 return superConstructor != null &&\n
isInheritanceFromInterface(superConstructor, iface);\n
}\n
/**\n
 * @param {*\n
 * @param {Function|Object} klass\n
 * @returns {Boolean}\n
 */\n
Kotlin.isType = function (object, klass) {\n
 if (klass ===\n
Object) {\n
 switch (typeof object) {\n
 case "string":\n
 case "number":\n
 case\n
"boolean":\n
 case "function":\n
 return true;\n
 default:\n
 return object instanceof\n
Object;\n
 }\n
 }\n
 if (object == null || klass == null || (typeof object !== 'object' && typeof object !==\n
'function')) {\n
 return false;\n
 }\n
 if (typeof klass === "function" && object instanceof klass) {\n
 return true;\n
 }\n
 var proto = Object.getPrototypeOf(klass);\n
 var constructor = proto != null ?\n
proto.constructor : null;\n
 if (constructor != null && "$metadata$" in constructor) {\n
 var metadata =\n
constructor.$metadata$;\n
 if (metadata.kind === Kotlin.Kind.OBJECT) {\n
 return object === klass;\n
 }\n
 }\n
 var classMetadata = klass.$metadata$;\n
 // In WebKit (JavaScriptCore) for some interfaces from\n
DOM typeof returns "object", nevertheless they can be used in RHS of instanceof\n
 if (classMetadata == null)

```

```

{\n return object instanceof class;\n }{\n\n if (classMetadata.kind === Kotlin.Kind.INTERFACE &&
object.constructor != null) {\n return isInheritanceFromInterface(object.constructor, class);\n }{\n\n return
false;\n};\n\nKotlin.isNumber = function (a) {\n return typeof a === "number" || a instanceof
Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n return value instanceof
Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n var type = typeof value;\n\n return type
=== "string" ||\n type === "boolean" ||\n Kotlin.isNumber(value) ||\n Kotlin.isType(value,
Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n return typeof value === "string"
|| Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};";/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the
module\n\n@PublishedApi\n\nexternal fun <T> Array(size: Int): Array<T>\n\n@JsName("newArray")\n\nfun
<T> newArray(size: Int, initialValue: T) = fillArrayVal(Array<T>(size),
initialValue)\n\n@JsName("newArrayF")\n\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =
fillArrayFun(Array<T>(size), init)\n\n@JsName("fillArray")\n\ninline fun <T> fillArrayFun(array: Array<T>, init:
(Int) -> T): Array<T> {\n for (i in 0..array.size - 1) {\n array[i] = init(i)\n }\n return
array\n}\n\n@JsName("booleanArray")\n\nfun booleanArray(size: Int, init: dynamic): Array<Boolean> {\n val
result: dynamic = Array<Boolean>(size)\n result.`$type$` = "BooleanArray"\n return when (init) {\n null,
true -> fillArrayVal(result, false)\n false -> result\n else -> fillArrayFun<Boolean>(result, init)\n
}\n}\n\n@JsName("booleanArrayF")\n\ninline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean):
Array<Boolean> = fillArrayFun(booleanArray(size, false),
init)\n\n@JsName("charArray")\n\n@Suppress("UNUSED_PARAMETER")\n\nfun charArray(size: Int, init:
dynamic): Array<Char> {\n val result = js("new Uint16Array(size)")\n result.`$type$` = "CharArray"\n return
when (init) {\n null, true, false -> result // For consistency\n else -> fillArrayFun<Char>(result,
init)\n }\n}\n\n@JsName("charArrayF")\n\ninline fun charArrayWithFun(size: Int, init: (Int) -> Char):
Array<Char> {\n val array = charArray(size, null)\n for (i in 0..array.size - 1) {\n
@Suppress("UNUSED_VARIABLE") // used in js block\n val value = init(i)\n js("array[i] = value;")\n
}\n return array\n}\n\n@JsName("untypedCharArrayF")\n\ninline fun untypedCharArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {\n val array = Array<Char>(size)\n for (i in 0..array.size - 1) {\n
@Suppress("UNUSED_VARIABLE") // used in js block\n val value = init(i)\n js("array[i] = value;")\n
}\n return array\n}\n\n@JsName("longArray")\n\nfun longArray(size: Int, init: dynamic): Array<Long> {\n val
result: dynamic = Array<Long>(size)\n result.`$type$` = "LongArray"\n return when (init) {\n null, true ->
fillArrayVal(result, 0L)\n false -> result\n else -> fillArrayFun<Long>(result, init)\n
}\n}\n\n@JsName("longArrayF")\n\ninline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> =
fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array: Array<T>, initialValue: T): Array<T>
{\n for (i in 0..array.size - 1) {\n array[i] = initialValue\n }\n return array\n}";/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic class
Enum<T> : Enum<T>> : Comparable<Enum<T>> {\n @JsName("name$") private var _name: String = ""\n @JsName("ordinal$") private var _ordinal: Int = 0\n\n val name: String\n get() = _name\n\n val ordinal:
Int\n get() = _ordinal\n\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this === other\n\n override fun hashCode(): Int =
js("Kotlin.identityHashCode")(this)\n\n override fun toString() = name\n\n companion object {\n}";/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js.internal\n\n@JsName("DoubleCompanionObject")\n\ninternal object DoubleCompanionObject {\n
@JsName("MIN_VALUE")\n const val MIN_VALUE: Double = 4.9E-324\n\n @JsName("MAX_VALUE")\n const val MAX_VALUE: Double = 1.7976931348623157E308\n\n @JsName("POSITIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val

```

```

POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n @JsName("NEGATIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n
@JsName("NaN")\n @Suppress("DIVISION_BY_ZERO")\n const val NaN: Double = -(0.0 / 0.0)\n\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 64\n}\n\n@JsName("FloatCompanionObject")\ninternal object FloatCompanionObject {\n
@JsName("MIN_VALUE")\n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName("MAX_VALUE")\n
const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n
@JsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val
NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Float = -(0.0F / 0.0F)\n\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 32\n}\n\n@JsName("IntCompanionObject")\ninternal object IntCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName("MAX_VALUE")\n
val MAX_VALUE: Int = 2147483647\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 32\n}\n\n@JsName("LongCompanionObject")\ninternal
object LongCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Long =
js("Kotlin.Long.MIN_VALUE")\n\n @JsName("MAX_VALUE")\n val MAX_VALUE: Long =
js("Kotlin.Long.MAX_VALUE")\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 64\n}\n\n@JsName("ShortCompanionObject")\ninternal
object ShortCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Short = -32768\n\n
@JsName("MAX_VALUE")\n val MAX_VALUE: Short = 32767\n\n @JsName("SIZE_BYTES")\n const
val SIZE_BYTES = 2\n\n @JsName("SIZE_BITS")\n const val SIZE_BITS =
16\n}\n\n@JsName("ByteCompanionObject")\ninternal object ByteCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Byte = -128\n\n @JsName("MAX_VALUE")\n val
MAX_VALUE: Byte = 127\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 1\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 8\n}\n\n@JsName("CharCompanionObject")\ninternal
object CharCompanionObject {\n @JsName("MIN_VALUE")\n public const val MIN_VALUE: Char =
"\u0000"\n\n @JsName("MAX_VALUE")\n public const val MAX_VALUE: Char = "\uFFFF"\n\n
@JsName("MIN_HIGH_SURROGATE")\n public const val MIN_HIGH_SURROGATE: Char = "\uD800"\n\n
@JsName("MAX_HIGH_SURROGATE")\n public const val MAX_HIGH_SURROGATE: Char =
"\uDBFF"\n\n @JsName("MIN_LOW_SURROGATE")\n public const val MIN_LOW_SURROGATE: Char =
"\uDC00"\n\n @JsName("MAX_LOW_SURROGATE")\n public const val MAX_LOW_SURROGATE: Char =
"\uDFFF"\n\n @JsName("MIN_SURROGATE")\n public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n\n @JsName("MAX_SURROGATE")\n public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 2\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 16\n}\n\ninternal object StringCompanionObject
{\n}\n\ninternal object BooleanCompanionObject {\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T
{\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

```

```

*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n

```



```

*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n return
get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n return
get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n return
get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n

```

```

*^@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n return
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n
*^@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n return
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n return indexOf(element)
>= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun
ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n */\n\npublic operator fun ShortArray.contains(element: Short): Boolean {\n return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun
IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n */\n\npublic operator fun LongArray.contains(element: Long): Boolean {\n return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\n@Deprecated("The
function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it ==
element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior
as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.6")\n@Suppress("DEPRECATION_ERROR")\npublic operator fun FloatArray.contains(element: Float):
Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n

```

```

*\n@Deprecated("\nThe function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.\", ReplaceWith("\nany { it == element }"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Suppress(\"DEPRECATION_ERROR\")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of

```

calling the [defaultValue] function if the [index] is out of bounds of this array.\n \* \n \* @sample

```

samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrNull(index: Int): Byte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrNull(index: Int): Short? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index: Int): Float? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample

```

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

`samples.collections.Collections.Elements.find` `\n * \n @kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample`

```

samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out
T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun ByteArray.first(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is
empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
DoubleArray.first(): Double {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun BooleanArray.first(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is
empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun CharArray.first(): Char {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
<T> Array<out T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n for (element in
this) if (predicate(element)) return element\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -
> Boolean): Short {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n for (element in this) if (predicate(element))
return element\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -
> Boolean): Long {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n for (element in this) if
(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n for (element in this) if (predicate(element)) return element\n throw

```

```

NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or
throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the array was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n
* or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result =
transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n *\npublic fun <T> Array<out T>.firstOrNull(): T? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\npublic fun ByteArray.firstOrNull(): Byte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n *\npublic fun ShortArray.firstOrNull(): Short? {\n return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n *\npublic fun
IntArray.firstOrNull(): Int? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n *\npublic fun LongArray.firstOrNull(): Long? {\n return if (isEmpty()) null
else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n *\npublic fun
FloatArray.firstOrNull(): Float? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n *\npublic fun DoubleArray.firstOrNull(): Double? {\n return if (isEmpty())
null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n *\npublic fun
BooleanArray.firstOrNull(): Boolean? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n *\npublic fun CharArray.firstOrNull(): Char? {\n return if (isEmpty())
null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n *\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in
this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n *\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) ->
Boolean): Byte? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if element was not found.\n *\npublic inline fun
ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n *\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n for
(element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n *\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n *\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n
for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element

```

matching the given [predicate], or `null` if element was not found.

```

*public inline fun
DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {
 for (element in this) if
(predicate(element)) return element
 return null
}
* Returns the first element matching the given
[predicate], or `null` if element was not found.
*public inline fun BooleanArray.firstOrNull(predicate:
(Boolean) -> Boolean): Boolean? {
 for (element in this) if (predicate(element)) return element
 return
null
}
* Returns the first element matching the given [predicate], or `null` if element was not found.
*public inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {
 for (element in this) if
(predicate(element)) return element
 return null
}
* Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.
*internal inline fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) ->
T): T? {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
* Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.
*internal inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -
> Byte): Byte? {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
* Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.
*internal inline fun ShortArray.getOrNull(index: Int,
defaultValue: (Int) -> Short): Short? {
 return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)
}
* Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.
*internal inline fun
IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int? {
 return if (index >= 0 && index <= lastIndex)
get(index) else defaultValue(index)
}
* Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.
*internal inline fun
LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long? {
 return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)
}
* Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.
*internal inline fun FloatArray.getOrNull(index: Int, defaultValue: (Int) -> Float):
Float? {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
* Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.
*internal inline fun DoubleArray.getOrNull(index: Int, defaultValue:
(Int) -> Double): Double? {
 return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)
}
* Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.
*internal inline fun
BooleanArray.getOrNull(index: Int, defaultValue: (Int) -> Boolean): Boolean? {
 return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)
}
* Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.
*internal inline fun CharArray.getOrNull(index: Int, defaultValue: (Int) -> Char):
Char? {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
* Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.
* @sample
samples.collections.Collections.Elements.getOrNull
*public fun <T> Array<out T>.getOrNull(index: Int): T?
{
 return if (index >= 0 && index <= lastIndex) get(index) else null
}
* Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.
* @sample
samples.collections.Collections.Elements.getOrNull
*public fun ByteArray.getOrNull(index: Int): Byte? {
 return if (index >= 0 && index <= lastIndex) get(index) else null
}
* Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.
* @sample
samples.collections.Collections.Elements.getOrNull
*public fun ShortArray.getOrNull(index: Int): Short? {
 return if (index >= 0 && index <= lastIndex) get(index) else null
}
* Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.
* @sample
samples.collections.Collections.Elements.getOrNull
*public fun IntArray.getOrNull(index: Int): Int? {

```



```

return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun DoubleArray.getOrNull(index: Int): Double?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out
T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] ==
null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element ==
this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n
for (index in indices) {\n if (element == this[index]) {\n return index\n }\n}\n return -
1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
ShortArray.indexOf(element: Short): Int {\n for (index in indices) {\n if (element == this[index]) {\n
return index\n }\n}\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element
== this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in
indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated("The function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }'
instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("indexOfFirst { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.6")\npublic fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if
(element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\n@Deprecated("The function has unclear behavior when
searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue
using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.",
ReplaceWith("indexOfFirst { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.6")\npublic fun DoubleArray.indexOf(element: Double): Int {\n for (index in indices) {\n if (element ==
this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n for (index
in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n *
Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
CharArray.indexOf(element: Char): Int {\n for (index in indices) {\n if (element == this[index]) {\n
return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out
T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n

```

```

 return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index]))
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the
given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if

```

```

(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample samples.collections.Collections.Elements.last\n\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int

```

```

{\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return
element\n }\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun LongArray.last(predicate: (Long) -> Boolean):
Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean):
Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun DoubleArray.last(predicate: (Double) ->
Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun BooleanArray.last(predicate: (Boolean) ->
Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun CharArray.last(predicate: (Char) -> Boolean):
Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n\npublic
fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if (element == null) {\n
for (index in indices.reversed()) {\n if (this[index] == null) {\n return index\n }\n }\n} else {\n
for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n}\n
return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
element.\n */\n\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n for (index in indices.reversed()) {\n
if (element == this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns last index of
[element], or -1 if the array does not contain element.\n */\n\npublic fun ShortArray.lastIndexOf(element: Short): Int
{\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n}\n
return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n\npublic
fun IntArray.lastIndexOf(element: Int): Int {\n for (index in indices.reversed()) {\n if (element == this[index])
{\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not
contain element.\n */\n\npublic fun LongArray.lastIndexOf(element: Long): Int {\n for (index in indices.reversed())
{\n if (element == this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns last
index of [element], or -1 if the array does not contain element.\n */\n\n@Deprecated("The function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("indexOfLast { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.6")\n\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index in indices.reversed())
{\n if (element == this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns last
index of [element], or -1 if the array does not contain element.\n */\n\n@Deprecated("The function has unclear

```



```

(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean)
-> Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun CharArray.lastOrNull(predicate: (Char) ->
Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n *
\n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.random(): Short {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.random(): Long {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.random(): Double {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.random(): Boolean {\n return
random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.random(): Char {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n\npublic
fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n
\n *\n@SinceKotlin("1.3")\n\npublic fun ByteArray.random(random: Random): Byte {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
\n *\n@SinceKotlin("1.3")\n\npublic

```

```

fun ShortArray.random(random: Random): Short {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun IntArray.random(random: Random): Int {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun LongArray.random(random: Random): Long {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun FloatArray.random(random: Random): Float {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun DoubleArray.random(random: Random): Double {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun BooleanArray.random(random: Random): Boolean {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.randomOrNull(): T? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ByteArray.randomOrNull(): Byte? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ShortArray.randomOrNull(): Short? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun IntArray.randomOrNull(): Int? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun LongArray.randomOrNull(): Long? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun FloatArray.randomOrNull(): Float? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun DoubleArray.randomOrNull(): Double? {
 return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun BooleanArray.randomOrNull(): Boolean? {
 return randomOrNull(Random)
}

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ByteArray.randomOrNull(random: Random): Byte? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ShortArray.randomOrNull(random: Random): Short? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntArray.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongArray.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun FloatArray.randomOrNull(random: Random): Float? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun DoubleArray.randomOrNull(random: Random): Double? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun BooleanArray.randomOrNull(random: Random): Boolean? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharArray.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n*\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw\n IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n*\npublic fun ByteArray.single(): Byte {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n*\npublic fun ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one

```





```

the predicate.})\n @Suppress("UNCHECKED_CAST")\n return single as Long}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n var single: Float? =
null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.}")\n @Suppress("UNCHECKED_CAST")\n return single as Float}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n var single:
Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.}")\n @Suppress("UNCHECKED_CAST")\n return single as Double}\n\n/**\n *
Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n var
single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if
(found) throw IllegalArgumentException("Array contains more than one matching element.")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.}")\n @Suppress("UNCHECKED_CAST")\n return single as
Boolean}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no
or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char
{\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n
if (found) throw IllegalArgumentException("Array contains more than one matching element.")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.}")\n @Suppress("UNCHECKED_CAST")\n return single as Char}\n\n/**\n
* Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T>
Array<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null}\n\n/**\n * Returns single element, or `null`
if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n
return if (size == 1) this[0] else null}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n return if (size == 1) this[0] else
null}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun IntArray.singleOrNull(): Int? {\n return if (size == 1) this[0] else null}\n\n/**\n * Returns single element, or `null`
if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n
return if (size == 1) this[0] else null}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n return if (size == 1) this[0] else
null}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun DoubleArray.singleOrNull(): Double? {\n return if (size == 1) this[0] else null}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n return if (size == 1) this[0] else null}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1)
this[0] else null}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if
(predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n
if (!found) return null\n return single}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n var single: Byte? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n

```

```

found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single
= element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n var single: Int? = null\n
var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n
single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n var
single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if
(found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element))
{\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return
null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element
was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate:
(Double) -> Boolean): Double? {\n var single: Double? = null\n var found = false\n for (element in this) {\n
if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return
null\n return single\n}\n\n/**\n * Returns the single element matching the given
[predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n var single: Boolean? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n
single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char?
= null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return
null\n single = element\n found = true\n }\n }\n if (!found) return null\n return
single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.dropLast(n: Int): List<T>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.drop\n *^\\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for
(item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample

```

```

inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {
 var yielding = false
 val list = ArrayList<Byte>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {
 var yielding = false
 val list = ArrayList<Short>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {
 var yielding = false
 val list = ArrayList<Int>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {
 var yielding = false
 val list = ArrayList<Long>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {
 var yielding = false
 val list = ArrayList<Float>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {
 var yielding = false
 val list = ArrayList<Double>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
 var yielding = false
 val list = ArrayList<Boolean>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample
samples.collections.Collections.Transformations.drop
 */
public inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {
 var yielding = false
 val list = ArrayList<Char>()
 for (item in this)
 if (yielding) list.add(item)
 else if (!predicate(item)) {
 list.add(item)
 yielding = true
 }
 return list
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample
samples.collections.Collections.Filtering.filter
 */
public inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {
 return filterTo(ArrayList<T>(), predicate)
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample
samples.collections.Collections.Filtering.filter
 */
public inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {
 return filterTo(ArrayList<Byte>(), predicate)
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample
samples.collections.Collections.Filtering.filter
 */
public inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {
 return filterTo(ArrayList<Short>(), predicate)
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample
samples.collections.Collections.Filtering.filter
 */
public inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {
 return filterTo(ArrayList<Int>(), predicate)
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample
samples.collections.Collections.Filtering.filter
 */
public inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {
 return filterTo(ArrayList<Long>(), predicate)
}
/** Returns a list containing only elements matching the given [predicate].
 * @sample

```

```

samples.collections.Collections.Filtering.filter\n *\npublic inline fun FloatArray.filter(predicate: (Float) ->
Boolean): List<Float> {\n return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun CharArray.filter(predicate: (Char) ->
Boolean): List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element
and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun <T> Array<out
T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic
inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return
filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun
IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return
filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun DoubleArray.filterIndexed(predicate:
(index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic
inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return
filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching
the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample

```

```

samples.collections.Collections.Filtering.filterIndexed\n * \npublic inline fun CharArray.filterIndexed(predicate:
(index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n * \npublic inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C
{\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n}
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n *
\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:
(index: Int, Byte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n} return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n} return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n *
\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index:
Int, Int) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n} return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n} return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n *
\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n} return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n
forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n}
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n *
\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate:
(index: Int, Boolean) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n} return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample

```



```

samples.collections.Collections.Filtering.filterIndexedTo\n *^\\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\\n forEachIndexed {
index, element ->\\n if (predicate(index, element)) destination.add(element)\\n }\\n return
destination\\n}\\n\\n/**\\n * Returns a list containing all elements that are instances of specified type parameter R.\\n *
\\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n *^\\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\\n return
filterIsInstanceTo(\\n}\\n\\n/**\\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\\n * \\n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n *^\\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\\n for (element in this) if (element is
R) destination.add(element)\\n return destination\\n}\\n\\n/**\\n * Returns a list containing all elements not matching
the given [predicate].\\n * \\n * @sample samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list containing
all elements not matching the given [predicate].\\n * \\n * @sample samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\\n return
filterNotTo(\\n}\\n\\n/**\\n * Returns a list containing all elements not matching the
given [predicate].\\n * \\n * @sample samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun
IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun LongArray.filterNot(predicate: (Long) ->
Boolean): List<Long> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list
containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list
containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list
containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -
> Boolean): List<Boolean> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list
containing all elements not matching the given [predicate].\\n * \\n * @sample
samples.collections.Collections.Filtering.filter\n *^\\npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> {\\n return filterNotTo(\\n}\\n\\n/**\\n * Returns a list containing
all elements that are not `null`.\\n * \\n * @sample samples.collections.Collections.Filtering.filterNotNull\n *^\\npublic
fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\\n return filterNotNullTo(\\n}\\n\\n/**\\n *
Appends all elements that are not `null` to the given [destination].\\n * \\n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n *^\\npublic fun <C : MutableCollection<in T>, T : Any>
Array<out T?>.filterNotNullTo(destination: C): C {\\n for (element in this) if (element != null)
destination.add(element)\\n return destination\\n}\\n\\n/**\\n * Appends all elements not matching the given
[predicate] to the given [destination].\\n * \\n * @sample samples.collections.Collections.Filtering.filterTo\n *^\\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\\n for (element in this) if (!predicate(element)) destination.add(element)\\n return
destination\\n}\\n\\n/**\\n * Appends all elements not matching the given [predicate] to the given [destination].\\n * \\n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\\n for (element in this) if

```

```

(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) ->
Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if (predicate(element))
destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun
<C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Float>>

```

```

FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {
 for (element in this) if
 (predicate(element)) destination.add(element)
 return destination
}

@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double)
-> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
 return
 destination
}

@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {
 for (element in this) if
 (predicate(element)) destination.add(element)
 return destination
}

@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) ->
Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
 return
 destination
}

public fun <T> Array<out T>.slice(indices: IntRange): List<T> {
 if (indices.isEmpty()) return listOf()
 return
 copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

public fun ByteArray.slice(indices: IntRange): List<Byte> {
 if
 (indices.isEmpty()) return listOf()
 return copyOfRange(indices.start, indices.endInclusive +
 1).asList()
}

public fun ShortArray.slice(indices: IntRange): List<Short> {
 if (indices.isEmpty()) return listOf()
 return
 copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

public fun IntArray.slice(indices: IntRange): List<Int> {
 if
 (indices.isEmpty()) return listOf()
 return copyOfRange(indices.start, indices.endInclusive +
 1).asList()
}

public fun LongArray.slice(indices: IntRange): List<Long> {
 if (indices.isEmpty()) return listOf()
 return
 copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

public fun FloatArray.slice(indices: IntRange): List<Float> {
 if
 (indices.isEmpty()) return listOf()
 return copyOfRange(indices.start, indices.endInclusive +
 1).asList()
}

public fun DoubleArray.slice(indices: IntRange): List<Double> {
 if (indices.isEmpty()) return listOf()
 return
 copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

public fun BooleanArray.slice(indices: IntRange): List<Boolean> {
 if
 (indices.isEmpty()) return listOf()
 return copyOfRange(indices.start, indices.endInclusive +
 1).asList()
}

public fun CharArray.slice(indices: IntRange): List<Char> {
 if (indices.isEmpty()) return listOf()
 return
 copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

public fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {
 val size =
 indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<T>(size)
 for
 (index in indices) {
 list.add(get(index))
 }
 return list
}

public fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {
 val size =
 indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<Byte>(size)
 for
 (index in indices) {
 list.add(get(index))
 }
 return list
}

public fun ShortArray.slice(indices: Iterable<Int>): List<Short> {
 val size =
 indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<Short>(size)
 for
 (index in indices) {
 list.add(get(index))
 }
 return list
}

public fun IntArray.slice(indices: Iterable<Int>): List<Int> {
 val size =
 indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<Int>(size)
 for
 (index in indices) {
 list.add(get(index))
 }
 return list
}

public fun LongArray.slice(indices: Iterable<Int>): List<Long> {
 val size =

```

```

indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Long>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Float>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n val
size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Double>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>):
List<Boolean> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list
= ArrayList<Boolean>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>):
List<Char> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Char>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T>
Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n val result = arrayOfNulls(this, indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n val result = ByteArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n val result = ShortArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
IntArray.sliceArray(indices: Collection<Int>): IntArray {\n val result = IntArray(indices.size)\n var targetIndex
= 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
LongArray.sliceArray(indices: Collection<Int>): LongArray {\n val result = LongArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n val result = FloatArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n val result = DoubleArray(indices.size)\n
var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n
return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n val result = BooleanArray(indices.size)\n
var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n
return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
CharArray.sliceArray(indices: Collection<Int>): CharArray {\n val result = CharArray(indices.size)\n var
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return
result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
<T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n if (indices.isEmpty()) return copyOfRange(0, 0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n if
(indices.isEmpty()) return ByteArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n
* Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
ShortArray.sliceArray(indices: IntRange): ShortArray {\n if (indices.isEmpty()) return ShortArray(0)\n return

```

```

copyOfRange(indices.start, indices.endInclusive + 1)\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n if
(indices.isEmpty()) return IntArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
LongArray.sliceArray(indices: IntRange): LongArray {\n if (indices.isEmpty()) return LongArray(0)\n return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n if
(indices.isEmpty()) return FloatArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n if (indices.isEmpty()) return DoubleArray(0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray
{\n if (indices.isEmpty()) return BooleanArray(0)\n return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n if (indices.isEmpty()) return CharArray(0)\n return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<T>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Byte>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Short>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Int>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Long>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n

```

```

require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n
for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return
emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list =
ArrayList<Boolean>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n
return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
CharArray.take(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if
(n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n
val list = ArrayList<Char>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n
}\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgument\n * \n * @throws\n * \n * @sample\n * \n * @sample\n * \n * @sample\n * \n * @sample\n * \n *
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Byte>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Int>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Long>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Float>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" } \n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =

```

```

ArrayList<Double>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n * \n * public fun BooleanArray.takeLast(n: Int):\n List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return\n emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list\n = ArrayList<Boolean>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n * \n * public fun CharArray.takeLast(n: Int):\n List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return\n emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list\n = ArrayList<Char>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun <T> Array<out\n T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a\n list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun ByteArray.takeLastWhile(predicate:\n (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements\n satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public\n inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex\n downTo 0) {\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return\n toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun IntArray.takeLastWhile(predicate: (Int)\n -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if\n (!predicate(this[index])) {\n return\n drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the\n given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun\n LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns\n a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun FloatArray.takeLastWhile(predicate:\n (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if\n (!predicate(this[index])) {\n return\n drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements\n satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public\n inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex\n downTo 0) {\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return\n toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun\n BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex\n downTo 0) {\n if\n (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return\n toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public inline fun CharArray.takeLastWhile(predicate:\n (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if\n (!predicate(this[index])) {\n return\n drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements\n satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n * \n * public\n inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for\n (item in this) {\n if\n (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample

```

```

samples.collections.Collections.Transformations.take\n *^\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic inline fun
ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item
in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a
list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n val list = ArrayList<Int>()\n for (item in this) {\n if (!predicate(item))\n
 break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements
satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *^\npublic inline fun
LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item
in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a
list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun FloatArray.takeWhile(predicate:
(Float) -> Boolean): List<Float> {\n val list = ArrayList<Float>()\n for (item in this) {\n if
(!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*^\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list =
ArrayList<Double>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if
(!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*^\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n val list =
ArrayList<Char>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n
return list\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun <T> Array<T>.reverse(): Unit {\n
val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun ByteArray.reverse():
Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun ShortArray.reverse():
Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun IntArray.reverse():
Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun LongArray.reverse():
Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun FloatArray.reverse():
Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in
0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n
reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n *^\npublic fun
DoubleArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex =
lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n
}

```



```

this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun BooleanArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun CharArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *

```

```

@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic fun
DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic fun
BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var
reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n
this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses
elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic
fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var
reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n
this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Returns a
list with elements in reversed order.\n *^\npublic fun <T> Array<out T>.reversed(): List<T> {\n if (isEmpty())
return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with
elements in reversed order.\n *^\npublic fun ByteArray.reversed(): List<Byte> {\n if (isEmpty()) return
emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements
in reversed order.\n *^\npublic fun ShortArray.reversed(): List<Short> {\n if (isEmpty()) return emptyList()\n val
list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n *^\npublic fun IntArray.reversed(): List<Int> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\npublic fun
LongArray.reversed(): List<Long> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\npublic fun
FloatArray.reversed(): List<Float> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\npublic fun
DoubleArray.reversed(): List<Double> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\npublic fun
BooleanArray.reversed(): List<Boolean> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n *^\npublic fun
CharArray.reversed(): List<Char> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n

```

```

list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun <T> Array<T>.reversedArray(): Array<T> {\n if (isEmpty()) return this\n val result = arrayOfNulls(this,
size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return
result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
ByteArray.reversedArray(): ByteArray {\n if (isEmpty()) return this\n val result = ByteArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray():
ShortArray {\n if (isEmpty()) return this\n val result = ShortArray(size)\n val lastIndex = lastIndex\n for (i in
0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n if (isEmpty()) return this\n val
result = IntArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
LongArray.reversedArray(): LongArray {\n if (isEmpty()) return this\n val result = LongArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray():
FloatArray {\n if (isEmpty()) return this\n val result = FloatArray(size)\n val lastIndex = lastIndex\n for (i in
0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n if (isEmpty()) return
this\n val result = DoubleArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex -
i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty()) return this\n val result =
BooleanArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
CharArray.reversedArray(): CharArray {\n if (isEmpty()) return this\n val result = CharArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun <T>
Array<T>.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n */\n\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
}\n\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
}\n\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo
1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n

```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.n \* n \* See:  
[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)n

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}
```

}n}n/n/\*\*n \* Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.n \* n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.n \*\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareBy(selector))\n}

}n}n/n/\*\*n \* Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.n \* n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.n \*\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareByDescending(selector))\n}

}n}n/n/\*\*n \* Sorts elements in the array in-place descending according to their natural sort order.n \* n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.n \*\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n sortWith(reverseOrder())\n}

}n}n/n/\*\*n \* Sorts elements in the array in-place descending according to their natural sort order.n \*\npublic fun ByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}

}n}n/n/\*\*n \* Sorts elements in the array in-place descending according to their natural sort order.n \*\npublic fun

ShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \*/\npublic fun

IntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \*/\npublic fun LongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \*/\npublic fun FloatArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \*/\npublic fun DoubleArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \*/\npublic fun CharArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n return sortedArray().asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun ByteArray.sorted(): List<Byte> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun ShortArray.sorted(): List<Short> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun IntArray.sorted(): List<Int> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun LongArray.sorted(): List<Long> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun FloatArray.sorted(): List<Float> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun DoubleArray.sorted(): List<Double> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*/\npublic fun CharArray.sorted(): List<Char> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun ByteArray.sortedArray(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun ShortArray.sortedArray(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun IntArray.sortedArray(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun LongArray.sortedArray(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun FloatArray.sortedArray(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun DoubleArray.sortedArray(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*/\npublic fun CharArray.sortedArray(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*/\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*/\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all

elements of this array sorted descending according to their natural sort order.

```

public fun
ShortArray.sortedArrayDescending(): ShortArray {
 if (isEmpty()) return this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted descending according to their natural sort order.

```

public fun IntArray.sortedArrayDescending(): IntArray {
 if (isEmpty()) return
this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted descending according to their natural sort order.

```

public fun LongArray.sortedArrayDescending():
LongArray {
 if (isEmpty()) return this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted descending according to their natural sort order.

```

public fun
FloatArray.sortedArrayDescending(): FloatArray {
 if (isEmpty()) return this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted descending according to their natural sort order.

```

public fun DoubleArray.sortedArrayDescending(): DoubleArray {
 if (isEmpty())
return this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted descending according to their natural sort order.

```

public fun
CharArray.sortedArrayDescending(): CharArray {
 if (isEmpty()) return this
 return this.copyOf().apply {
 sortDescending()
 }
}

```

\* Returns an array with all elements of this array sorted according the specified [comparator].

\* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T>
{
 if (isEmpty()) return this
 return this.copyOf().apply {
 sortWith(comparator)
 }
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

\* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

@sample samples.collections.Collections.Sorting.sortedBy
public inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

@sample
samples.collections.Collections.Sorting.sortedBy
public inline fun <R : Comparable<R>>
DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
 return
sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

`samples.collections.Collections.Sorting.sortedBy` \n \* \n public inline fun <R : Comparable<R>>  
`BooleanArray.sortedBy`(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return  
`sortedWith(compareBy(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted according to natural sort order  
of the value returned by specified [selector] function. \n \* \n \* @sample  
`samples.collections.Collections.Sorting.sortedBy` \n \* \n public inline fun <R : Comparable<R>>  
`CharArray.sortedBy`(crossinline selector: (Char) -> R?): List<Char> {\n return  
`sortedWith(compareBy(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending according to natural  
sort order of the value returned by specified [selector] function. \n \* \n \* The sort is `_stable_`. It means that equal  
elements preserve their order relative to each other after sorting. \n \* \n public inline fun <T, R : Comparable<R>>  
`Array<out T>.sortedByDescending`(crossinline selector: (T) -> R?): List<T> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `ByteArray.sortedByDescending`(crossinline selector: (Byte) -> R?): List<Byte> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `ShortArray.sortedByDescending`(crossinline selector: (Short) -> R?): List<Short> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `IntArray.sortedByDescending`(crossinline selector: (Int) -> R?): List<Int> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `LongArray.sortedByDescending`(crossinline selector: (Long) -> R?): List<Long> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `FloatArray.sortedByDescending`(crossinline selector: (Float) -> R?): List<Float> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `DoubleArray.sortedByDescending`(crossinline selector: (Double) -> R?): List<Double> {\n  
return `sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `BooleanArray.sortedByDescending`(crossinline selector: (Boolean) -> R?): List<Boolean> {\n  
return `sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function. \n \* \n public inline fun <R :  
Comparable<R>> `CharArray.sortedByDescending`(crossinline selector: (Char) -> R?): List<Char> {\n return  
`sortedWith(compareByDescending(selector))` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to their natural sort order. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order  
relative to each other after sorting. \n \* \n public fun <T : Comparable<T>> `Array<out T>.sortedDescending`():  
List<T> {\n return `sortedWith(reverseOrder())` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending  
according to their natural sort order. \n \* \n public fun `ByteArray.sortedDescending`(): List<Byte> {\n return  
`copyOf().apply { sort() }.reversed()` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending according to their  
natural sort order. \n \* \n public fun `ShortArray.sortedDescending`(): List<Short> {\n return `copyOf().apply { sort()  
}.reversed()` \n} \n \n /\*\* \n \* Returns a list of all elements sorted descending according to their natural sort order. \n  
\* \n public fun `IntArray.sortedDescending`(): List<Int> {\n return `copyOf().apply { sort() }.reversed()` \n} \n \n /\*\* \n  
\* Returns a list of all elements sorted descending according to their natural sort order. \n \* \n public fun  
`LongArray.sortedDescending`(): List<Long> {\n return `copyOf().apply { sort() }.reversed()` \n} \n \n /\*\* \n \* Returns  
a list of all elements sorted descending according to their natural sort order. \n \* \n public fun  
`FloatArray.sortedDescending`(): List<Float> {\n return `copyOf().apply { sort() }.reversed()` \n} \n \n /\*\* \n \* Returns  
a list of all elements sorted descending according to their natural sort order. \n \* \n public fun

DoubleArray.sortedDescending(): List<Double> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun

CharArray.sortedDescending(): List<Char> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n return

sortedArrayWith(comparator).asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun

LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun ByteArray.asList(): List<Byte>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun ShortArray.asList(): List<Short>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun IntArray.asList(): List<Int>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun LongArray.asList(): List<Long>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun FloatArray.asList(): List<Float>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun DoubleArray.asList(): List<Double>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun CharArray.asList(): List<Char>\n\n/\*\*\n \* Returns `true` if the two specified arrays are *deeply* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* If two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to 0.0`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are deeply equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are also considered deeply equal if both are null`.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and -0.0` is not equal to 0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * \n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is`



```

undefined.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun
<T> Array<out T>.contentDeepHashCode(): Int\n/**\n * Returns a hash code based on the contents of this array
as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level
the behavior is undefined.\n *\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out
T>?.contentDeepHashCode(): Int\n/**\n * Returns a string representation of the contents of this array as if it is a
[List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that
reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out
T>.contentDeepToString(): String\n/**\n * Returns a string representation of the contents of this array as if it is a
[List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that
reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*\n@SinceKotlin("1.4")\npublic expect fun
<T> Array<out T>?.contentDeepToString(): String\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n/**\n * Returns `true` if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For
floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun
ByteArray.contentEquals(other: ByteArray): Boolean\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n/**\n * Returns `true` if the two specified
arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same
order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun
IntArray.contentEquals(other: IntArray): Boolean\n/**\n * Returns `true` if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For
floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun
LongArray.contentEquals(other: LongArray): Boolean\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n/**\n * Returns `true` if the two specified
arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same
order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point

```

numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")`

`@SinceKotlin("1.1")`

`@DeprecatedSinceKotlin(hiddenSince = "1.4")`

`public expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")`

`@SinceKotlin("1.1")`

`@DeprecatedSinceKotlin(hiddenSince = "1.4")`

`public expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")`

`@SinceKotlin("1.1")`

`@DeprecatedSinceKotlin(hiddenSince = "1.4")`

`public expect infix fun CharArray.contentEquals(other: CharArray): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`* The elements are compared for equality with the [equals][Any.equals] function.`

`For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.`

`@SinceKotlin("1.4")`

`public expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean`

`* Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.`

`\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin("1.4")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentHashCode(): Int\n\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n */\n * \n * @sample`

```

samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\n"Use Kotlin compiler 1.4 to
avoid deprecation warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
CharArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/**\n * Returns a
string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun
ByteArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentToString(): String\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun
IntArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentToString(): String\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin("1.4")\npublic expect fun
FloatArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentToString(): String\n\n/**\n * Returns a string

```

representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentToString(): String\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the

subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* \n \* \n \* @SinceKotlin("1.3")\n \* \n \* public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* \n \* \n \* @SinceKotlin("1.3")\n \* \n \* public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* \n \* \n \* @SinceKotlin("1.3")\n \* \n \* public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* \n \* \n \* @SinceKotlin("1.3")\n \* \n \* public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array

starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \*  
 \n \* @return the [destination] array.\n \*  
 @SinceKotlin("1.3")\npublic expect fun  
 CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):  
 CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\n \* @Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf():  
 Array<T>\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun ByteArray.copyOfOf():  
 ByteArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun ShortArray.copyOfOf():  
 ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun IntArray.copyOfOf(): IntArray\n\n/\*\*\n\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun LongArray.copyOfOf():  
 LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun FloatArray.copyOfOf():  
 FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun DoubleArray.copyOfOf():  
 DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun BooleanArray.copyOfOf():  
 BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n\n\*\npublic expect fun CharArray.copyOfOf():  
 CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \*  
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the  
 size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of  
 the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n\n\*\npublic expect fun  
 ByteArray.copyOfOf(newSize: Int): ByteArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \*  
 \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n\n\*\npublic  
 expect fun ShortArray.copyOfOf(newSize: Int): ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the  
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values  
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n\n\*\npublic  
 expect fun IntArray.copyOfOf(newSize: Int): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the  
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values  
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n\n\*\npublic  
 expect fun LongArray.copyOfOf(newSize: Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of  
 the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero  
 values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n\n\*\npublic  
 expect fun FloatArray.copyOfOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of

the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char ('\u0000') values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char ('\u0000') values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n\*/



@param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun

```

greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int
= 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double,
fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element]
value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end
of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun
BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val <T> Array<out T>.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic
val ByteArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *\npublic val ShortArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *\npublic val IntArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val LongArray.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic
val FloatArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *\npublic val DoubleArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *\npublic val BooleanArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val CharArray.indices: IntRange\n
 get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is not empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *\n@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n return

```

```

!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(element: T): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun

```

`BooleanArray.plus(elements: Collection<Boolean>): BooleanArray` Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

`fun CharArray.plus(elements: Collection<Char>): CharArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`*\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`BooleanArray.plus(elements: BooleanArray): BooleanArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`CharArray.plus(elements: CharArray): CharArray` Returns an array containing all elements of the original array and then the given [element].

`*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun IntArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun LongArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun ByteArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun ShortArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun DoubleArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun FloatArray.sort(): Unit` Sorts the array in-place.

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArray`

`*\npublic expect fun CharArray.sort(): Unit` Sorts the array in-place according to the natural order of its elements.

`\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.`

`\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable`

`*\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit` Sorts a range in the array in-place.

`\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.`

`\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.`

`\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.`

`\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.`

`\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].`

`\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable`

`*\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit` Sorts a range in the array in-place.

`\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.`

`\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.`

`\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.`

`\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].`

`\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray`

`*\n@SinceKotlin("1.4")\npublic expect fun`

```

ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param

```

```

fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the
order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n */\n\npublic expect fun <T> Array<out T>.sortWith(comparator:
Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n *
@param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n */\n\npublic expect fun <T> Array<out T>.sortWith(comparator:
Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing
all of the elements of this generic array.\n */\n\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n
return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the
elements of this generic array.\n */\n\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return
ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this

```

```

generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) { index ->
this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n
*/\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) { index ->
this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic
fun Array<out Float>.toFloatArray(): FloatArray {\n return FloatArray(size) { index -> this[index] }\n}\n\n/**\n *
Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out
Int>.toIntArray(): IntArray {\n return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of
Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray():
LongArray {\n return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing
all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n return
ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a
typed object array containing all of the elements of this primitive array.\n */\npublic expect fun
ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n */\npublic expect fun
LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a
typed object array containing all of the elements of this primitive array.\n */\npublic expect fun
DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun
CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by
[transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original
array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline
fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the

```

map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*^\npublic inline fun <K, V>  
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),  
transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to  
elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the  
map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*^\npublic inline fun <K, V>  
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),  
transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to  
elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the  
map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*^\npublic inline fun <K, V>  
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),  
transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to  
elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the  
map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*^\npublic inline fun <K, V>  
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),  
transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to  
elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the  
map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*^\npublic inline fun <K, V>  
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),  
transform)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \*  
returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key  
returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration  
order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \*^\npublic inline fun <T, K>  
Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, T>(capacity),  
keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \*  
returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key  
returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration  
order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \*^\npublic inline fun <K>  
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n val capacity =  
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Byte>(capacity),  
keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \*  
returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key  
returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration  
order of the original array.\n \* \n \* @sample  
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \*^\npublic inline fun <K>  
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n val capacity =



```

mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline

```

```

fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline
fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V>
{\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample

```

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V>
{\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and
value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n
for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n
for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n
for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the

```

[keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M
{
 for (element in this) {
 destination.put(keySelector(element), element)
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M
{
 for (element in this) {
 destination.put(keySelector(element), element)
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M
{
 for (element in this) {
 destination.put(keySelector(element), element)
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M
{
 for (element in this) {
 destination.put(keySelector(element), valueTransform(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M
{
 for (element in this) {
 destination.put(keySelector(element), valueTransform(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M
{
 for (element in this) {
 destination.put(keySelector(element), valueTransform(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M
{
 for (element in this) {
 destination.put(keySelector(element), valueTransform(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) ->
K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) ->
K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) ->

```

```

Pair<K, V>: M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M { \n for
(element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) ->
Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M { \n for
(element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->
Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M { \n
for (element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced
by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\npublic inline
fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> { \n val result =
LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> { \n val result = LinkedHashMap<Byte,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function

```

applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n val result = LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n val result = LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(size).coerceAtMost(128)).coerceAtLeast(16)\n return associateWithTo(result,

```

```

valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
 * @sample samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K)
-> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination}\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
 * @sample samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n * \n @SinceKotlin("1.4")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination}\n}\n\n/**\n * Populates and returns the

```



[destination] mutable map with key-value pairs for each element of the given array, \n \* where key is the element itself and value is provided by the [valueSelector] function applied to that key. \n \* \n \* If any two elements are equal, the last one overwrites the former value in the map. \n \* \n \* @sample samples.collections.Collections.Transformations.associateWithTo

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/>\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, \n * where key is the element itself and value is provided by the [valueSelector] function applied to that key. \n * \n * If any two elements are equal, the last one overwrites the former value in the map. \n * \n * @sample samples.collections.Collections.Transformations.associateWithTo
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>> CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Appends all elements to the given [destination] collection. \n *\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun IntArray.toHashSet(): HashSet<Int> {\n return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun LongArray.toHashSet(): HashSet<Long> {\n return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/>\n * Returns a new [HashSet] of all elements. \n *\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return

```

```

toCollection(HashSet<Double>(mapCapacity(size)))\n\n\n * Returns a new [HashSet] of all elements.\n
*\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n\n\n * Returns a new [HashSet] of all elements.\n
*\npublic fun CharArray.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n\n\n * Returns a [List] containing all
elements.\n * \npublic fun <T> Array<out T>.toList(): List<T> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all
elements.\n * \npublic fun ByteArray.toList(): List<Byte> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun ShortArray.toList(): List<Short> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun IntArray.toList(): List<Int> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun LongArray.toList(): List<Long> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun FloatArray.toList(): List<Float> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun DoubleArray.toList(): List<Double> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun BooleanArray.toList(): List<Boolean> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a [List] containing all elements.\n
*\npublic fun CharArray.toList(): List<Char> {\n return when (size) {\n 0 -> emptyList()\n
 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n\n * Returns a new [MutableList] filled with all
elements of this array.\n * \npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n return
ArrayList(this.asCollection())\n\n\n * Returns a new [MutableList] filled with all elements of this array.\n
*\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n val list = ArrayList<Byte>(size)\n for (item
in this) list.add(item)\n return list\n\n\n * Returns a new [MutableList] filled with all elements of this
array.\n * \npublic fun ShortArray.toMutableList(): MutableList<Short> {\n val list = ArrayList<Short>(size)\n
for (item in this) list.add(item)\n return list\n\n\n * Returns a new [MutableList] filled with all elements of
this array.\n * \npublic fun IntArray.toMutableList(): MutableList<Int> {\n val list = ArrayList<Int>(size)\n
for (item in this) list.add(item)\n return list\n\n\n * Returns a new [MutableList] filled with all elements of this
array.\n * \npublic fun LongArray.toMutableList(): MutableList<Long> {\n val list = ArrayList<Long>(size)\n
for (item in this) list.add(item)\n return list\n\n\n * Returns a new [MutableList] filled with all elements of
this array.\n * \npublic fun FloatArray.toMutableList(): MutableList<Float> {\n val list =
ArrayList<Float>(size)\n for (item in this) list.add(item)\n return list\n\n\n * Returns a new [MutableList]
filled with all elements of this array.\n * \npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n val
list = ArrayList<Double>(size)\n for (item in this) list.add(item)\n return list\n\n\n * Returns a new
[MutableList] filled with all elements of this array.\n * \npublic fun BooleanArray.toMutableList():
MutableList<Boolean> {\n val list = ArrayList<Boolean>(size)\n for (item in this) list.add(item)\n return
list\n\n\n * Returns a new [MutableList] filled with all elements of this array.\n * \npublic fun
CharArray.toMutableList(): MutableList<Char> {\n val list = ArrayList<Char>(size)\n for (item in this)
list.add(item)\n return list\n\n\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when
(size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n\n\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n * \npublic fun ByteArray.toSet():
Set<Byte> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n }\n\n\n * Returns a [Set] of all elements.\n * \n * \n *

```

```

The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet():
Set<Short> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet():
Set<Int> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet():
Set<Long> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet():
Set<Float> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet():
Set<Double> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
BooleanArray.toSet(): Set<Boolean> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
CharArray.toSet(): Set<Char> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -
-> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n }\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun
<R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>

```

```

BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *

```

```

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Short) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic

```

```

c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Int) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Long) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Float) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Boolean) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C { \n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C { \n var index = 0\n for (element in this) {\n val list =
transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n
*\n@public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C { \n for (element in this) {\n val list = transform(element)\n

```

```

destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) ->
Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
} \n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\n\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the

```

given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys



```

produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \npublic inline fun <K, V>
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is

```

associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original array.

`@sample`

```

samples.collections.Collections.Transformations.groupByKeyAndValues
public inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {
 return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key)
 { ArrayList<T>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -
> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key)
 { ArrayList<Byte>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
destination.getOrPut(key) { ArrayList<Short>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
destination.getOrPut(key) { ArrayList<Int>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M,
keySelector: (Long) -> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
destination.getOrPut(key) { ArrayList<Long>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M,
keySelector: (Float) -> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
destination.getOrPut(key) { ArrayList<Float>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

`@return` The [destination] map.

`@sample`

```

samples.collections.Collections.Transformations.groupBy
public inline
fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M,
keySelector: (Double) -> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
destination.getOrPut(key) { ArrayList<Double>() }
 list.add(element)
 }
 return destination
}

```

Groups elements of the original array by the key returned by the given [keySelector] function applied to each

```

element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination:
M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and puts to the [destination] map each group key associated with a list of
corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in
this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to
the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n *
\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector:
(Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector:
(Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:
(Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the

```

original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values. @return The [destination] map. @sample samples.collections.Collections.Transformations.groupByKeyAndValues

```

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

```

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values. @return The [destination] map. @sample samples.collections.Collections.Transformations.groupByKeyAndValues

```

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

```

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values. @return The [destination] map. @sample samples.collections.Collections.Transformations.groupByKeyAndValues

```

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

```

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values. @return The [destination] map. @sample samples.collections.Collections.Transformations.groupByKeyAndValues

```

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

```

Creates a [Grouping] source from an array to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each element. @sample samples.collections.Grouping.groupingByEachCount

```

@SinceKotlin("1.1")
public inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
 return object : Grouping<T, K> {
 override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
 override fun keyOf(element: T): K = keySelector(element)
 }
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array. @sample samples.collections.Collections.Transformations.map

```

public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array. @sample samples.collections.Collections.Transformations.map

```

public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array. @sample samples.collections.Collections.Transformations.map

```

public inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array. @sample samples.collections.Collections.Transformations.map

```

public inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array. @sample samples.collections.Collections.Transformations.map

```

public inline fun <R> LongArray.map(transform:

```

(Long) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element in the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element in the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element in the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element in the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/\*\*\n \* Returns a list containing the results of applying the given [transform] function\n \* to each element and its index in the original array.\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n

returns the result of the transform applied to the element.

```

public inline fun <R>
CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
 return
 mapIndexedTo(ArrayList<R>(size), transform)
}

```

**mapIndexedTo(ArrayList<R>(size), transform)** Returns a list containing only the non-null results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
 return
 mapIndexedNotNullTo(ArrayList<R>(), transform)
}

```

**mapIndexedNotNullTo(ArrayList<R>(), transform)** Applies the given [transform] function to each element and its index in the original array and appends only the non-null results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
 forEachIndexed { index,
 element -> transform(index, element)?.let { destination.add(it) } }
 return destination
}

```

**mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R, C : MutableCollection<in
R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
 var index = 0
 for
 (item in this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
 var index = 0
 for (item in
 this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
 var index = 0
 for (item in
 this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
 var index = 0
 for (item in
 this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
 var index = 0
 for (item in
 this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
 var index = 0
 for (item in
 this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {
 var index = 0
 for
 (item in this)
 destination.add(transform(index++, item))
 return destination
}

```

**mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C** Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

[transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*  
`BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C { \n var index = 0 \n for (item in this)\n destination.add(transform(index++, item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *  
CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C { \n var index = 0 \n for (item in this)\n destination.add(transform(index++, item)) \n return destination \n } \n \n \n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n *  
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> { \n return mapNotNullTo(ArrayList<R>(), transform)\n } \n \n \n * Applies the given [transform] function to each element in the original array\n * and appends only the non-null results to the given [destination].\n *  
MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C { \n forEach { element -> transform(element)?.let { destination.add(it) } } \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
ShortArray.mapTo(destination: C, transform: (Short) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n *  
MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C { \n for (item in this)\n destination.add(transform(item)) \n return destination \n } \n \n \n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n *  
Array<out T>.withIndex(): Iterable<IndexedValue<T>> { \n return IndexingIterable { iterator() } \n } \n \n \n * Returns a`

lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
 return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
 return IndexingIterable { iterator() }
}

```

Returns a list containing only distinct elements from the given array.

Among equal elements of the given array, only the first one will be present in the resulting list.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun <T> Array<out T>.distinct(): List<T> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun ByteArray.distinct(): List<Byte> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun ShortArray.distinct(): List<Short> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun IntArray.distinct(): List<Int> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun LongArray.distinct(): List<Long> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun FloatArray.distinct(): List<Float> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun DoubleArray.distinct(): List<Double> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

```

@sample

```



```

samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic fun BooleanArray.distinct():
List<Boolean> {\\n return this.toMutableSet().toList()\\n}\\n\\n/**\\n * Returns a list containing only distinct
elements from the given array.\\n * \\n * The elements in the resulting list are in the same order as they were in the
source array.\\n * \\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic
fun CharArray.distinct(): List<Char> {\\n return this.toMutableSet().toList()\\n}\\n\\n/**\\n * Returns a list containing
only elements from the given array\\n * having distinct keys returned by the given [selector] function.\\n * \\n *
Among elements of the given array with equal keys, only the first one will be present in the resulting list.\\n * The
elements in the resulting list are in the same order as they were in the source array.\\n * \\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\\n val set = HashSet<K>()\\n val list = ArrayList<T>()\\n for (e in
this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n return list\\n}\\n\\n/**\\n *
Returns a list containing only elements from the given array\\n * having distinct keys returned by the given [selector]
function.\\n * \\n * The elements in the resulting list are in the same order as they were in the source array.\\n * \\n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\\n val set = HashSet<K>()\\n val list =
ArrayList<Byte>()\\n for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n
return list\\n}\\n\\n/**\\n * Returns a list containing only elements from the given array\\n * having distinct keys
returned by the given [selector] function.\\n * \\n * The elements in the resulting list are in the same order as they
were in the source array.\\n * \\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\\n val set = HashSet<K>()\\n val list =
ArrayList<Short>()\\n for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n
return list\\n}\\n\\n/**\\n * Returns a list containing only elements from the given array\\n * having distinct keys
returned by the given [selector] function.\\n * \\n * The elements in the resulting list are in the same order as they
were in the source array.\\n * \\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\\n val set = HashSet<K>()\\n val list = ArrayList<Int>()\\n
for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n return list\\n}\\n\\n/**\\n *
Returns a list containing only elements from the given array\\n * having distinct keys returned by the given
[selector] function.\\n * \\n * The elements in the resulting list are in the same order as they were in the source
array.\\n * \\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline
fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\\n val set = HashSet<K>()\\n val list =
ArrayList<Long>()\\n for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n
return list\\n}\\n\\n/**\\n * Returns a list containing only elements from the given array\\n * having distinct keys
returned by the given [selector] function.\\n * \\n * The elements in the resulting list are in the same order as they
were in the source array.\\n * \\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\\n val set = HashSet<K>()\\n val list =
ArrayList<Float>()\\n for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n }\\n
return list\\n}\\n\\n/**\\n * Returns a list containing only elements from the given array\\n * having distinct keys
returned by the given [selector] function.\\n * \\n * The elements in the resulting list are in the same order as they
were in the source array.\\n * \\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\\npublic inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\\n val set = HashSet<K>()\\n val list =
ArrayList<Double>()\\n for (e in this) {\\n val key = selector(e)\\n if (set.add(key))\\n list.add(e)\\n
 }\\n return list\\n}\\n\\n/**\\n * Returns a list containing only elements from the given array\\n * having distinct keys
returned by the given [selector] function.\\n * \\n * The elements in the resulting list are in the same order as they
were in the source array.\\n * \\n * @sample

```

```

samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list =
ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n val set = HashSet<K>()\n val list =
ArrayList<Char>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun
ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n val set =
this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are
contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n val set
= this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration
order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these
collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n val
set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all
elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least
in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>):
Set<Boolean> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set
containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set
preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are
contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other:
Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n *
\n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T>

```

```

Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by\n the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this\n array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of\n the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n val set =\n this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that\n are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the\n element iteration order of the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int>\n {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all\n elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set\n preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other:\n Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified\n collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun\n FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this\n array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of\n the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n val set\n = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that\n are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the\n element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>):\n Set<Boolean> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set\n containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The\n returned set preserves the element iteration order of the original array.\n */\npublic infix fun\n CharArray.subtract(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.removeAll(other)\n\n return set}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out\n T>.toMutableSet(): MutableSet<T> {\n return toCollection(LinkedHashSet<T>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set\n preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet():\n MutableSet<Byte> {\n return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))}\n\n/**\n * Returns a\n new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the\n element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n\n return toCollection(LinkedHashSet<Short>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet]\n containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order\n of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n return\n toCollection(LinkedHashSet<Int>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n return\n toCollection(LinkedHashSet<Long>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n return\n toCollection(LinkedHashSet<Float>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n return\n toCollection(LinkedHashSet<Double>(mapCapacity(size)))}\n\n/**\n * Returns a new [MutableSet] containing

```

all distinct elements from the given array.

`\n * \n * The returned set preserves the element iteration order of the original array.`

```
\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n
```

```

return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) ->
Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
IntArray.all(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n
return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) ->
Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if
array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun
<T> Array<out T>.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any():
Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out
T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate:
(Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return

```



```

var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean)
-> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun
CharArray.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out
T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R>
DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun
<R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n var accumulator = initial\n for
(element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]

```

function that takes current accumulator value and an element, and calculates the next accumulator value.

```

*^public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
 var accumulator = initial
 for (element in this) accumulator = operation(accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*^public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the



specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n

\n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
 var index = lastIndex
 var

```

```

accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R)
-> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element
and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator =
initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R
{\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R,
operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index,
get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself\n * and current accumulator value, and
calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation:
(index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n
var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n
 --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator

```

```

value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) ->
R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial:
R, operation: (index: Int, Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R):
R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R,
operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out
T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given
[action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for (element
in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n
for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline
fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) ->
Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {\n for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the
action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an

```

```

element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit
{\n var index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.max(): Byte? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.max(): Short? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun IntArray.max(): Int? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.max(): Long? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun FloatArray.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharArray.max(): Char? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Array<out

```

```

T>.maxBy(selector: (T) -> R): T? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull
instead.\`, ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`,
errorSince = `1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector:
(Byte) -> R): Byte? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R):
Short? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int?
{\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R):
Long? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R):
Float? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) ->
R): Double? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -
> R): Boolean? {\n return maxByOrNull(selector)\n}\n\n@Deprecated(\`Use maxByOrNull instead.\`,
ReplaceWith(\`this.maxByOrNull(selector)\`))\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince = `1.6`)\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R):
Char? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin(`1.4`)\n * \n * public inline fun <T, R :
Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin(`1.4`)\n * \n * public inline fun <R :
Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin(`1.4`)\n * \n * public inline fun <R :
Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin(`1.4`)\n * \n * public inline fun <R :
Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var maxElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)

```

```

{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)\n {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)\n {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)\n {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)\n {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double):
Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

```

```

`NaN`.n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to

```



each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values

```

```

produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->
Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n *

```

Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) ->\nDouble): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) ->\nDouble): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) ->\nDouble): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector:\n(Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:\n(Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) ->\nDouble): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOrNull(selector:\n(T) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
```

```
{\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector: (Double) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:
```

```

(Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.maxOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> LongArray.maxOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n *\n * @SinceKotlin("1.4")\n *\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *\n *
@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n

```



```

*^@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return\n max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`\n returns `NaN`.\n */\n*^@SinceKotlin("1.4")\npublic fun Array<out Float>.maxOrNull(): Float? {\n if (isEmpty())\n return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n if (isEmpty())\n return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte? {\n if (isEmpty()) return null\n var max =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun\n ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if\n there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun IntArray.maxOrNull(): Int? {\n if (isEmpty())\n return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max\n = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n*^@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max\n = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return\n max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`\n returns `NaN`.\n */\n*^@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())\n return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return\n max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n*^@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return\n max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n = "1.5", hiddenSince = "1.6")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n return\n maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince

```

```

= \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double?
{\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>):
Boolean? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n * ^\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out
T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n * ^\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>):
Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n return

```

```

minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\npublic fun ByteArray.min(): Byte? {\n return minOrNull()\n}\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic fun ShortArray.min(): Short? {\n return
minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\npublic fun IntArray.min(): Int? {\n return minOrNull()\n}\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic fun LongArray.min(): Long? {\n return
minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\npublic fun FloatArray.min(): Float? {\n return minOrNull()\n}\n\n@Deprecated(\\"Use
minOrNull instead.\", ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic fun DoubleArray.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated(\\"Use minOrNull instead.\",
ReplaceWith(\\"this.minOrNull()\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince = \\"1.5\",
hiddenSince = \\"1.6\")\npublic fun CharArray.min(): Char? {\n return minOrNull()\n}\n\n@Deprecated(\\"Use
minByOrNull instead.\", ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince =
\\"1.4\", errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minBy(selector: (T) -> R): T? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull
instead.\", ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector:
(Byte) -> R): Byte? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R):
Short? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int?
{\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R):
Long? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R):
Float? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) ->
R): Double? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -
> R): Boolean? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R):
Char? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the

```

```

given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.minByOrNull(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var
minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n *

```

Returns the first element yielding the smallest value of the given function or `null` if there are no elements.

```

@sample samples.collections.Collections.Aggregates.minByOrNull
@SinceKotlin("1.4")
public inline fun
<R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {
 if (isEmpty()) return null
 var minElem = this[0]
 val lastIndex = this.lastIndex
 if (lastIndex == 0) return minElem
 var minValue = selector(minElem)
 for (i in 1..lastIndex) {
 val e = this[i]
 val v = selector(e)
 if (minValue > v) {
 minElem = e
 minValue = v
 }
 }
 return minElem
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOf(selector: (T) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOf(selector: (Byte) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOf(selector: (Short) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOf(selector: (Int) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOf(selector: (Long) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOf(selector: (Float) -> Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}

```

```

minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in

```

```

1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n } \n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue

```

```

= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the\n * array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nShortArray.minOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nIntArray.minOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the\n * array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nLongArray.minOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nFloatArray.minOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nDoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nBooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>

```



CharArray.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:
(Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
(Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->
Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector:
(T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOrNull(selector: (Short) -
> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.minOfOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.minOfOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```

ShortArray.minOrNull(selector: (Short) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

IntArray.minOrNull(selector: (Int) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

LongArray.minOrNull(selector: (Long) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

FloatArray.minOrNull(selector: (Float) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

DoubleArray.minOrNull(selector: (Double) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

BooleanArray.minOrNull(selector: (Boolean) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>

CharArray.minOrNull(selector: (Char) -> R): R? {
 if (isEmpty()) return null
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 */
@throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
 if (isEmpty()) throw NoSuchElementException
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if (comparator.compare(minValue, v) > 0) {
 minValue = v
 }
 }
 return minValue
}
/** Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
 */
@throws NoSuchElementException if

```

the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:\nComparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:\nComparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:\nComparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue\n= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue,\nv) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value\n according to the provided [comparator]\n * among all values produced by [selector] function applied to each\n element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:\nComparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:\nComparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:\nComparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:\nComparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

Returns the smallest value according to the provided [comparator] \* among all values produced by [selector] function applied to each element in the array. \* @throws NoSuchElementException if the array is empty.

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n */
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if

```

```

(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n return minValue\n}\n\n**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n if (isEmpty()) return null\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return
min\n}\n\n**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min,
e)\n }\n return min\n}\n\n**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n if (isEmpty())
return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n
return min\n}\n\n**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minOrNull(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n if (isEmpty())
return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n
return min\n}\n\n**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): Long? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.minOrNull(): Double? {\n if (isEmpty()) return null\n var
min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return
min\n}\n\n**\n * Returns the smallest element or `null` if there are no elements.\n

```

```

min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double?
{\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>):
Boolean? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead."),
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.minWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n
return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n

```



```

if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>):
Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no
elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\n\npublic fun <T> Array<out
T>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n *\n\npublic fun ByteArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun ShortArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun IntArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun LongArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun FloatArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun DoubleArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun BooleanArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n\npublic fun CharArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n\npublic inline fun <T> Array<out
T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n\npublic inline fun ByteArray.none(predicate:
(Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n\npublic inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if no elements match the given [predicate].\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate:
(Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) ->
Unit): ByteArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) ->
Unit): LongArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) ->
Unit): FloatArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean)
-> Unit): BooleanArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) ->
Unit): CharArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n *
@param [action] function that takes the index of an element and the element itself\n * and performs the action on
the element.\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n return apply { forEachIndexed(action)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Performs the given [action] on each element, providing sequential index with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {
 return apply {
 forEachIndexed(action)
 }
}

/** Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
 if (isEmpty())
 throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator: S = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
 if (isEmpty())
 throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right  
accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce  
public inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {  
 if (isEmpty()) throw  
 UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*\n \* \n \* public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n \* if (isEmpty())\n \* throw UnsupportedOperationException("Empty array can't be reduced.")\n \* var accumulator = this[0]\n \* for (index in 1..lastIndex) {\n \* accumulator = operation(accumulator, this[index])\n \* }\n \* return accumulator\n \* }\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*\n \* \n \* public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n \* if (isEmpty())\n \* throw UnsupportedOperationException("Empty array can't be reduced.")\n \* var accumulator: S = this[0]\n \* for (index in 1..lastIndex) {\n \* accumulator = operation(index, accumulator, this[index])\n \* }\n \* return accumulator\n \* }\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*\n \* \n \* public inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n \* if (isEmpty())\n \* throw UnsupportedOperationException("Empty array can't be reduced.")\n \* var accumulator = this[0]\n \* for (index in 1..lastIndex) {\n \* accumulator = operation(index, accumulator, this[index])\n \* }\n \* return accumulator\n \* }\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*\n \* \n \* public inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n \* if (isEmpty())\n \* throw UnsupportedOperationException("Empty array can't be reduced.")\n \* var accumulator = this[0]\n \* for (index in 1..lastIndex) {\n \* accumulator = operation(index, accumulator, this[index])\n \* }\n \* return accumulator\n \* }\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*\n \* \n \* public inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n \* if (isEmpty())\n \* throw UnsupportedOperationException("Empty array can't be reduced.")\n \* var accumulator = this[0]\n \* for (index in 1..lastIndex) {\n \* accumulator = operation(index, accumulator, this[index])\n \* }\n \* return accumulator\n \* }\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an

element, current accumulator value and the element itself,  
`@sample samples.collections.Collections.Aggregates.reduce`  
`LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long` {  
`if (isEmpty())` throw `UnsupportedOperationException("Empty array can't be reduced.")`  
`var accumulator = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index, accumulator, this[index])`  
`return accumulator`  
} Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.  
`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
`@sample samples.collections.Collections.Aggregates.reduce`  
`FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float` {  
`if (isEmpty())` throw `UnsupportedOperationException("Empty array can't be reduced.")`  
`var accumulator = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index, accumulator, this[index])`  
`return accumulator`  
} Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.  
`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
`@sample samples.collections.Collections.Aggregates.reduce`  
`DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double` {  
`if (isEmpty())` throw `UnsupportedOperationException("Empty array can't be reduced.")`  
`var accumulator = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index, accumulator, this[index])`  
`return accumulator`  
} Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.  
`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
`@sample samples.collections.Collections.Aggregates.reduce`  
`BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean` {  
`if (isEmpty())` throw `UnsupportedOperationException("Empty array can't be reduced.")`  
`var accumulator = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index, accumulator, this[index])`  
`return accumulator`  
} Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.  
`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
`@sample samples.collections.Collections.Aggregates.reduce`  
`CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char` {  
`if (isEmpty())` throw `UnsupportedOperationException("Empty array can't be reduced.")`  
`var accumulator = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index, accumulator, this[index])`  
`return accumulator`  
} Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.  
`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
`@sample samples.collections.Collections.Aggregates.reduceOrNull`  
`SinceKotlin("1.4")`  
`public inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S?` {  
`if (isEmpty())` return `null`  
`var accumulator: S = this[0]` for (index in `1..lastIndex`) {  
`accumulator = operation(index,`

```

accumulator, this[index])\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte,
Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) ->
Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(index, accumulator, this[index])\n } \n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value and the element itself,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long,
Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:
Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator

```

```

value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var
accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]

```



from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \*  
\n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \*  
\*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun  
FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var  
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n  
}\n return accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation]  
from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \*  
\n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample  
samples.collections.Collections.Aggregates.reduceOrNull\n \*  
\*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun  
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return  
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,  
this[index])\n } \n return accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and  
applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if  
the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \*  
and calculates the next accumulator value.\n \* \n \* @sample  
samples.collections.Collections.Aggregates.reduceOrNull\n \*  
\*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun  
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n  
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =  
operation(accumulator, this[index])\n } \n return accumulator}\n\n/\*\*\n \* Accumulates value starting with the  
first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \*  
Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and  
an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample  
samples.collections.Collections.Aggregates.reduceOrNull\n \*  
\*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun  
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var  
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n  
}\n return accumulator}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation]  
from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is  
empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null`  
when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator  
value,\n \* and calculates the next accumulator value.\n \* \n \* @sample  
samples.collections.Collections.Aggregates.reduceRight\n \*  
\*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun <S, T : S> Array<out  
T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw  
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while  
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n } \n return accumulator}\n\n/\*\*\n \*  
Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and  
current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an  
expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \*  
@param [operation] function that takes an element and current accumulator value,\n \* and calculates the next  
accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*  
\*\n public inline  
fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0)  
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while  
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n } \n return  
accumulator}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to  
left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the

array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

**@param** [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

**@sample**

```

samples.collections.Collections.Aggregates.reduceRight
public inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator =

```

```

get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out
T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return

```

```

accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var
index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =

```

```

get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun <S,
T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n
if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with its index in
the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin(\\"1.4\\")\npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n

```

```

accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n @SinceKotlin("1.4")\npublic inline fun
DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n @SinceKotlin("1.4")\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n
var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n @SinceKotlin("1.4")\npublic inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n var index = lastIndex\n if (index < 0)
return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n var index = lastIndex\n if (index
< 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =

```

operation(get(index--), accumulator)\n } \n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),\n accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =\n operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =\n operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n var index =\n lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index =\n lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0)\n return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
```

```

operation(get(index--), accumulator)\n } \n return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun
<T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size +
1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R,
operation: (acc: R, Long) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]

```



function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R,
operation: (acc: R, Float) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold

```

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R,
operation: (acc: R, Double) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result =
ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n
accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold

```

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial:
R, operation: (acc: R, Boolean) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result =
ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n
accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold

```

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R,
operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold

```

```

*\n@SinceKotlin("1.4")\npublic inline fun <T, R>
Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the

```

```

next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function

```

should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n \* @SinceKotlin("1.4")\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R>

DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n \* @SinceKotlin("1.4")\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R>

BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n \* @SinceKotlin("1.4")\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R>

CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* public inline fun <S, T : S>

Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n \* @SinceKotlin("1.4")\n \* @kotlin.internal.InlineOnly\n \* public inline fun ByteArray.runningReduce(operation:

(acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator
```

```

value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val
result = ArrayList<Char>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with the first element of this array.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\npublic inline fun <S, T :
S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n if (isEmpty()) return
emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n if

```

```

(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
 result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
 result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
{\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]

```

from left to right  
\* to each element and current accumulator value that starts with [initial] value.  
\* Note that `acc` value passed to [operation] function should not be mutated;  
\* otherwise it would affect the previous value in resulting list.  
\* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
\* @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.scan\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value
```

and an element, and calculates the next accumulator value.

```

@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {
 return runningFold(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
 return runningFold(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}
*/
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
@param [operation]

```



function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```
@sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.")\nReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>\nArray<out T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.")\nReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun\nByteArray.sumBy(selector: (Byte) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n * applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.")\nReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun\nShortArray.sumBy(selector: (Short) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
```

```

selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumBy(selector: (Int) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumBy(selector: (Long) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
FloatArray.sumBy(selector: (Float) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)

```

```

{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\n",
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\n",
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element
in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.\n",
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element
in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element
in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced

```

by [selector] function applied to each element in the array.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.toDouble()\n for\n(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values\n produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharArray.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in\nthis) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nArray<out T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nByteArray.sumOf(selector: (Byte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nShortArray.sumOf(selector: (Short) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nIntArray.sumOf(selector: (Int) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nLongArray.sumOf(selector: (Long) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nFloatArray.sumOf(selector: (Float) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nDoubleArray.sumOf(selector: (Double) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n

```

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType  
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n var  
sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \*  
Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):  
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in  
the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong  
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong  
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n  
var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong  
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong  
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy  
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong):  
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n  
return  
sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in  
the array.\n

\*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*/\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n
*/\npublic fun <T : Any>
Array<T?>.requireNonNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw
IllegalArgumentException("null element found in $this.")\n }\n }\n
}\n\n@Suppress("\UNCHECKED_CAST")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun <T> Array<out
T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second =
ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n
 second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun
ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first =
ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
*/\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun
ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first =
ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
*/\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun
IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val
second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n
 } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
second list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun
LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first =
ArrayList<Long>()\n val second = ArrayList<Long>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
*/\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first =

```



```

ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first = ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first = ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }

```

```

}
}

Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> CharArray.zip(other: Array<out R>):
List<Pair<Char, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of values built from the
elements of `this` array and the [other] array with the same index
using the provided [transform] function
applied to each pair of elements.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements of `this` array and the [other] array with the same
index
using the provided [transform] function applied to each pair of elements.
The returned list has length
of the shortest collection.
@sample samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements
of `this` array and the [other] array with the same index
using the provided [transform] function applied to each
pair of elements.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
 val size = minOf(size,
other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements of `this` array and the [other] array
with the same index
using the provided [transform] function applied to each pair of elements.
The returned
list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements of `this` array and the [other] array with the same
index
using the provided [transform] function applied to each pair of elements.
The returned list has length
of the shortest collection.
@sample samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements
of `this` array and the [other] array with the same index
using the provided [transform] function applied to each
pair of elements.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
 val size = minOf(size,
other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements of `this` array and the [other] array
with the same index
using the provided [transform] function applied to each pair of elements.
The returned
list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
 val size = minOf(size,
other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

Returns a list of values built from the elements of `this` array and the [other] array
with the same index
using the provided [transform] function applied to each pair of elements.
The returned
list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
 val size = minOf(size,

```

```

other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n * with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n * list has length of the\n * shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n val size = minOf(size,\nother.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with\n * the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other:\nIterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built\n * from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the\n * shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The\n * returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nIntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The\n * returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nLongArray.zip(other: Iterable<R>):\nList<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the\n * elements of `this` collection and [other] array with the same index.\n * The returned list has length of the\n * shortest\n * collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nFloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The\n * returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nDoubleArray.zip(other:\nIterable<R>): List<Pair<Double, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs\n * built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of\n * the\n * shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun\n<R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2\n}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same\n * index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>\nCharArray.zip(other: Iterable<R>):\nList<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the\n * elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function\n * applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out\nT>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = size\n val list =\nArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a\n * list of values built from the elements of `this` array and the [other] collection with the same index\n * using the\n * provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest\n * collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline

```

```

fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}
* Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.
* The returned list has length of the shortest collection.
* @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}
* Returns a list of values built from the elements of `this` array and the [other] collection with the
same index
* using the provided [transform] function applied to each pair of elements.
* The returned list has
length of the shortest collection.
* @sample
samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}
* Returns a
list of values built from the elements of `this` array and the [other] collection with the same index
* using the
provided [transform] function applied to each pair of elements.
* The returned list has length of the shortest
collection.
* @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline
fun <R, V> LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {
 val arraySize =
size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element
in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return
list
}
* Returns a list of values built from the elements of `this` array and the [other] collection with the
same index
* using the provided [transform] function applied to each pair of elements.
* The returned list has
length of the shortest collection.
* @sample
samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}
* Returns a
list of values built from the elements of `this` array and the [other] collection with the same index
* using the
provided [transform] function applied to each pair of elements.
* The returned list has length of the shortest
collection.
* @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline
fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {
 val arraySize =
size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element
in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return
list
}
* Returns a list of values built from the elements of `this` array and the [other] collection with the
same index
* using the provided [transform] function applied to each pair of elements.
* The returned list has
length of the shortest collection.
* @sample
samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline fun <R, V>
BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}
* Returns a list of values built from the elements of `this` array and the [other] collection with the same index
* using the provided [transform] function applied to each pair of elements.
* The returned list has length of the
shortest collection.
* @sample samples.collections.Iterables.Operations.zipIterableWithTransform
*
public inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return
}

```

```

list<T, U> zip(other: List<U>): List<Pair<T, U>>
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index.
 * The returned list has length of the shortest collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun ByteArray.zip(other: ByteArray):
List<Pair<Byte, Byte>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built from
 * the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun
ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The
 * returned list has length of the shortest collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun IntArray.zip(other: IntArray):
List<Pair<Int, Int>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built from the
 * elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun
LongArray.zip(other: LongArray): List<Pair<Long, Long>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The
 * returned list has length of the shortest collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun FloatArray.zip(other: FloatArray):
List<Pair<Float, Float>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built from
 * the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun
DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {
 return zip(other) { t1, t2 -> t1 to t2
}
}
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index.
 * The returned list has length of the shortest collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun BooleanArray.zip(other: BooleanArray):
List<Pair<Boolean, Boolean>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of pairs built
 * from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the
 * shortest collection.
 * @sample
samples.collections.Iterables.Operations.zipIterable

public infix fun
CharArray.zip(other: CharArray): List<Pair<Char, Char>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the
 * provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest
 * array.
 * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun
<V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {
 val size = minOf(size,
other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest array.
 * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <V>
ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {
 val size = minOf(size,
other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}
 * Returns a list of values built from the elements of `this` array and the [other] array
 * with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned
 * list has length of the shortest array.
 * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <V>
IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {
 val size = minOf(size, other.size)
 val list =
ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return
list
}
 * Returns a list of values built from the elements of `this` array and the [other] array with the same
 * index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length
 * of the shortest array.
 * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform

```

```

*public inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

\* Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

@sample  
samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

\* Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

@sample  
samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

\* Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

@sample  
samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

\* Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

@sample  
samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

\* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample  
samples.collections.Collections.Transformations.joinTo

```

*public fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 buffer.appendElement(element, transform)
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

```

\* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample  
samples.collections.Collections.Transformations.joinTo

```

*public fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

```

\* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which

```

defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer}\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer}\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer}\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer}\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer}\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given

```

[prefix] and [postfix] if supplied.

```

 * If the collection could be huge, you can specify a non-negative value of
 [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
 defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 * \npublic fun <A :
 Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"",
 postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) ->
 CharSequence)? = null): A {
 \n buffer.append(prefix)\n var count = 0\n for (element in this) {
 \n if (++count
 > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {
 \n if (transform != null)\n
 buffer.append(transform(element))\n else\n buffer.append(element.toString())\n }
 else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
 buffer\n}\n\n/**
 * Appends the string from all the elements separated using [separator] and using the given
 [prefix] and [postfix] if supplied.
 * If the collection could be huge, you can specify a non-negative value of
 [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
 defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinTo
 * \npublic fun <A :
 Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
 CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? =
 null): A {
 \n buffer.append(prefix)\n var count = 0\n for (element in this) {
 \n if (++count > 1)
 buffer.append(separator)\n if (limit < 0 || count <= limit) {
 \n if (transform != null)\n
 buffer.append(transform(element))\n else\n buffer.append(element)\n } else break\n }\n if
 (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinToString
 * \npublic fun <T> Array<out
 T>.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit:
 Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
 \n return
 joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinToString
 * \npublic fun ByteArray.joinToString(separator:
 CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated:
 CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
 \n return joinTo(StringBuilder(),
 separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinToString
 * \npublic fun ShortArray.joinToString(separator:
 CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated:
 CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
 \n return joinTo(StringBuilder(),
 separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 supplied.
 * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
 [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
 * @sample samples.collections.Collections.Transformations.joinToString
 * \npublic fun IntArray.joinToString(separator:
 CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated:
 CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
 \n return joinTo(StringBuilder(),
 separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 supplied.
 * If the collection could be

```



huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

```

samples.collections.Collections.Transformations.joinToString
*/
public fun LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
*/
samples.collections.Collections.Transformations.joinToString
*/
public fun FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
*/
samples.collections.Collections.Transformations.joinToString
*/
public fun DoubleArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
*/
samples.collections.Collections.Transformations.joinToString
*/
public fun BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
*/
samples.collections.Collections.Transformations.joinToString
*/
public fun CharArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun <T> Array<out T>.asIterable(): Iterable<T> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun ByteArray.asIterable(): Iterable<Byte> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun ShortArray.asIterable(): Iterable<Short> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun IntArray.asIterable(): Iterable<Int> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun LongArray.asIterable(): Iterable<Long> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun FloatArray.asIterable(): Iterable<Float> {
 if (isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}
*/
Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
*/
public fun

```

```

DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence():
Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun
BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n */\n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic
fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence {
this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Array<out Byte>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out Short>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out Int>.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out Long>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Array<out Float>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return

```

```

if (count == 0) Double.NaN else sum / count\n\n\n**\n * Returns an average value of elements in the array.\n
*\n@kotlin.jvm.JvmName("\averageOfDouble")\npublic fun Array<out Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n\n\n**\n * Returns an average value of elements in the array.\n
*\npublic fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in
this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum /
count\n\n\n**\n * Returns an average value of elements in the array.\n *\npublic fun ShortArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n\n\n**\n * Returns an average value of
elements in the array.\n *\npublic fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int =
0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else
sum / count\n\n\n**\n * Returns an average value of elements in the array.\n *\npublic fun LongArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n\n\n**\n * Returns an average value of
elements in the array.\n *\npublic fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int
= 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN
else sum / count\n\n\n**\n * Returns an average value of elements in the array.\n *\npublic fun
DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n\n\n**\n * Returns
the sum of all elements in the array.\n *\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out
Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n\n\n**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the sum of all elements in the
array.\n *\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n
for (element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the sum of all elements in
the array.\n *\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Array<out Long>.sum(): Long {\n var sum:
Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the sum of
all elements in the array.\n *\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out Float>.sum(): Float
{\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n\n\n**\n
* Returns the sum of all elements in the array.\n *\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out
Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n
return sum\n\n\n**\n * Returns the sum of all elements in the array.\n *\npublic fun ByteArray.sum(): Int {\n
var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the
sum of all elements in the array.\n *\npublic fun ShortArray.sum(): Int {\n var sum: Int = 0\n for (element in
this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the sum of all elements in the array.\n
*\npublic fun IntArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n
return sum\n\n\n**\n * Returns the sum of all elements in the array.\n *\npublic fun LongArray.sum(): Long {\n
var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the
sum of all elements in the array.\n *\npublic fun FloatArray.sum(): Float {\n var sum: Float = 0.0f\n for
(element in this) {\n sum += element\n }\n return sum\n\n\n**\n * Returns the sum of all elements in the
array.\n *\npublic fun DoubleArray.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n
sum += element\n }\n return sum\n\n\n**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage
kotlin.ranges\n\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\n\n\n**\n * Returns a

```

```

random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws
IllegalArgumentException if this range is empty.\n * \n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongRange.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int {\n try {\n return
random.nextInt(this)\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n try {\n return
random.nextLong(this)\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n try {\n return
random.nextInt(first.code, last.code + 1).toChar()\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntRange.randomOrNull(): Int? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongRange.randomOrNull(): Long? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharRange.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntRange.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return
random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongRange.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return
random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified
[element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element:
Int?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains
the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element:
Long?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range
contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun

```

ClosedRange<Long>.contains(value: Float): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun

ClosedRange<Byte>.contains(value: Float): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun

ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun

ClosedRange<Double>.contains(value: Float): Boolean {\n return contains(value.toDouble()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun

ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun

ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun

ClosedRange<Short>.contains(value: Int): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun

ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun

ClosedRange<Float>.contains(value: Int): Boolean {\n return contains(value.toFloat()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun

ClosedRange<Int>.contains(value: Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun

ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun

ClosedRange<Short>.contains(value: Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false } }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun

ClosedRange<Double>.contains(value: Long): Boolean {\n return contains(value.toDouble()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun

ClosedRange<Float>.contains(value: Long): Boolean {\n return contains(value.toFloat()) }\n\n/\*\*\n \* Checks if the specified [value] belongs to this

```

range.\n *\/\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Short): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n *\/\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n *\/\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator
fun ClosedRange<Byte>.contains(value: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\/\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value:
Short): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to
the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n *
If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Int.downTo(to: Byte):
IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal
to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix
fun Long.downTo(to: Byte): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n *\/\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
* If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun
Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -
1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n *\/\npublic infix fun Char.downTo(to: Char): CharProgression {\n return
CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Int.downTo(to: Int):
IntProgression {\n return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from
this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to
`this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix
fun Long.downTo(to: Int): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n *\/\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return
IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Short.downTo(to: Int):
IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal
to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix

```

```

fun Int.downTo(to: Long): LongProgression {
 return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Long.downTo(to: Long): LongProgression {
 return LongProgression.fromClosedRange(this, to, -1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Byte.downTo(to: Long): LongProgression {
 return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Long): LongProgression {
 return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Int.downTo(to: Short): IntProgression {
 return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Long.downTo(to: Short): LongProgression {
 return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Byte.downTo(to: Short): IntProgression {
 return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 * The [to] value should be less than or equal to `this` value.
 * If the [to] value is greater than `this` value the returned progression is empty.
 */
public infix fun Short.downTo(to: Short): IntProgression {
 return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}
/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun IntProgression.reversed(): IntProgression {
 return IntProgression.fromClosedRange(last, first, -step)
}
/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun LongProgression.reversed(): LongProgression {
 return LongProgression.fromClosedRange(last, first, -step)
}
/**
 * Returns a progression that goes over the same range with the given step.
 */
public fun CharProgression.reversed(): CharProgression {
 return CharProgression.fromClosedRange(last, first, -step)
}
/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun IntProgression.step(step: Int): IntProgression {
 checkStepIsPositive(step > 0, step)
 return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression {
 checkStepIsPositive(step > 0, step)
 return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int): CharProgression {
 checkStepIsPositive(step > 0, step)
 return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
internal fun Int.toByteExactOrNull(): Byte? {
 return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null
}
internal fun Long.toByteExactOrNull(): Byte? {
 return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null
}
internal fun Short.toByteExactOrNull(): Byte? {
 return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null
}
internal fun Double.toByteExactOrNull(): Byte? {
 return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null
}
internal fun Float.toByteExactOrNull(): Byte? {
 return if (this in

```



```

Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat())
this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns
a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this ..
(to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
\n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() ..
(to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
\n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\u0000')
return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return
IntRange.EMPTY\n return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding
the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is
empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to:
Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to -
1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to:
Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to -
1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to:
Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to:
Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this .. (to -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to:

```

Long): LongRange { \n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\* \n \* Returns a range from this value up to but excluding the specified [to] value. \n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty. \n \*/ \n\npublic infix fun Short.until(to: Long): LongRange { \n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\* \n \* Returns a range from this value up to but excluding the specified [to] value. \n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty. \n \*/ \n\npublic infix fun Int.until(to: Short): IntRange { \n return this .. (to.toInt() - 1).toInt()\n}\n\n/\*\* \n \* Returns a range from this value up to but excluding the specified [to] value. \n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty. \n \*/ \n\npublic infix fun Long.until(to: Short): LongRange { \n return this .. (to.toLong() - 1).toLong()\n}\n\n/\*\* \n \* Returns a range from this value up to but excluding the specified [to] value. \n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty. \n \*/ \n\npublic infix fun Byte.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\* \n \* Returns a range from this value up to but excluding the specified [to] value. \n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty. \n \*/ \n\npublic infix fun Short.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeastComparable \n \*/ \n\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Short.coerceAtLeast(minimumValue: Short): Short { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Int.coerceAtLeast(minimumValue: Int): Int { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Long.coerceAtLeast(minimumValue: Long): Long { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Float.coerceAtLeast(minimumValue: Float): Float { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not less than the specified [minimumValue]. \n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast \n \*/ \n\npublic fun Double.coerceAtLeast(minimumValue: Double): Double { \n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not greater than the specified [maximumValue]. \n \* \n \* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtMostComparable \n \*/ \n\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T { \n return if (this > maximumValue) maximumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not greater than the specified [maximumValue]. \n \* \n \* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise. \n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtMost \n \*/ \n\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte { \n return if (this > maximumValue) maximumValue else this\n}\n\n/\*\* \n \* Ensures that this value is not



```

return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in
the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n *\npublic fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n if (minimumValue > maximumValue)
throw IllegalArgumentException("\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Float.coerceIn(minimumValue: Float,
maximumValue: Float): Float {\n if (minimumValue > maximumValue) throw
IllegalArgumentException("\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {\n if (minimumValue > maximumValue) throw
IllegalArgumentException("\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange\n *\n@SinceKotlin("1.1")\npublic fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n if (range.isEmpty()) throw
IllegalArgumentException("\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<T>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\n if (this < range.start -> range.start\n this > range.endInclusive ->
range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<Int>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\n if (this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long
{\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if

```

```

(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n return
when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else ->
this\n } \n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npu
blic value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) :
Comparable<UByte> {\n\n companion object {\n /**\n * A constant holding the minimum value an
instance of UByte can have.\n */\n public const val MIN_VALUE: UByte = UByte(0)\n\n /**\n *
A constant holding the maximum value an instance of UByte can have.\n */\n public const val
MAX_VALUE: UByte = UByte(-1)\n\n /**\n * The number of bytes used to represent an instance of
UByte in a binary form.\n */\n public const val SIZE_BYTES: Int = 1\n\n /**\n * The number of
bits used to represent an instance of UByte in a binary form.\n */\n public const val SIZE_BITS: Int = 8\n
}\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than
other.\n */\n @kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
 @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
 public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the
other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n /** Adds the other value
to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n\n /** Subtracts the other value from
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n
 @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n\n /** Multiplies this value by
the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator

```

```

fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value, truncating the
result to an integer that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this
value by the other value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n *\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n /**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less
than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n *\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n *\n
@sample samples.misc.Builtins.inc\n *\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UByte = UByte(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n @sample
samples.misc.Builtins.dec\n *\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte =
UByte(data.dec())\n\n /** Creates a range from this value to the specified [other] value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): UIntRange =

```

```

UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n
/** Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n /** Performs a bitwise XOR operation
between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte): UByte =
UByte(this.data xor other.data)\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n public
inline fun inv(): UByte = UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n * \n * If
this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `UByte`. Otherwise the result is negative.\n * \n * The resulting `Byte` value has the
same binary representation as this `UByte` value.\n * \n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data\n /**\n * Converts this [UByte] value to [Short].\n * \n * The resulting `Short` value
represents the same numerical value as this `UByte`. \n * \n * The least significant 8 bits of the resulting `Short`
value are the same as the bits of this `UByte` value, \n * whereas the most significant 8 bits are filled with zeros.\n
*\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort() and 0xFF\n /**\n *
Converts this [UByte] value to [Int].\n * \n * The resulting `Int` value represents the same numerical value as
this `UByte`. \n * \n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 24 bits are filled with zeros.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n /**\n * Converts this
[UByte] value to [Long].\n * \n * The resulting `Long` value represents the same numerical value as this
`UByte`. \n * \n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 56 bits are filled with zeros.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this
value. *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = this\n /**\n * Converts this
[UByte] value to [UShort].\n * \n * The resulting `UShort` value represents the same numerical value as this
`UByte`. \n * \n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 8 bits are filled with zeros.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**\n
* Converts this [UByte] value to [UInt].\n * \n * The resulting `UInt` value represents the same numerical value
as this `UByte`. \n * \n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 24 bits are filled with zeros.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**\n *
Converts this [UByte] value to [ULong].\n * \n * The resulting `ULong` value represents the same numerical
value as this `UByte`. \n * \n * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value, \n * whereas the most significant 56 bits are filled with zeros.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n
* Converts this [UByte] value to [Float].\n * \n * The resulting `Float` value represents the same numerical
value as this `UByte`. \n * \n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n * \n * The resulting `Double`
value represents the same numerical value as this `UByte`. \n * \n @kotlin.internal.InlineOnly\n public inline
fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =
toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n * \n * If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`. \n * \n * The resulting `UByte` value has the same
binary representation as this `Byte` value.\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toUByte(): UByte = UByte(this)\n /**\n * Converts this [Short] value to [UByte].\n * \n * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n *
the same numerical value as this `Short`. \n * \n * The resulting `UByte` value is represented by the least significant 8
bits of this `Short` value.\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value\n represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least\n significant 8 bits of this `Int` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value\n represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the\n least significant 8 bits of this `Long` value.\n
\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n"/\n * Copyright 2010-2021 JetBrains s.r.o.\n and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n that can be found in the license/LICENSE.txt file.\n */\n// Auto-generated file. DO NOT EDIT!\n\npackage\n kotlin\n\nimport kotlin.experimental.*\nimport\n kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) :\n Comparable<UInt> {\n\n companion object {\n\n /**\n * A constant holding the minimum value an\n instance of UInt can have.\n */\n public const val MIN_VALUE: UInt = UInt(0)\n\n /**\n * A\n constant holding the maximum value an instance of UInt can have.\n */\n public const val MAX_VALUE:\n UInt = UInt(-1)\n\n /**\n * The number of bytes used to represent an instance of UInt in a binary form.\n */\n public const val SIZE_BYTES: Int = 4\n\n /**\n * The number of bits used to represent an\n instance of UInt in a binary form.\n */\n public const val SIZE_BITS: Int = 32\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other\n value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =\n this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the specified value for order.\n *\n Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a\n positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun\n compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the\n specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if\n it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: UInt): Int =\n uintCompare(this.data, other.data)\n\n /**\n * Compares this value with the specified value for order.\n *\n Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a\n positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun\n compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:\n UShort): UInt = this.plus(other.toUInt())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:\n ULong): ULong = this.toULong().plus(other)\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun\n minus(other: UShort): UInt = this.minus(other.toUInt())\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =\n UInt(this.data.minus(other.data))\n\n /**\n * Subtracts the other value from this value.\n */

```



```

@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n
/**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is
always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt):
UInt = uintRemainder(this, other)\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toUInt())\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n /**\n * Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this value by the other value, flooring the result to
an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of
this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned
types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n
/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun mod(other: UInt): UInt = rem(other)\n /**\n * Calculates the remainder of flooring division of this value by
the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the

```

```

remainders of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n /**\n * Returns this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n *\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n /**\n * Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n *\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UInt = UInt(data.dec())\n /** Creates a range from this value to the specified [other] value. *\n *\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\n /**\n * Shifts this value left by the [bitCount] number of bits.\n *\n * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n *\n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n /**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n *\n * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n *\n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n /** Performs a bitwise AND operation between the two values. *\n *\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. *\n *\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n /** Performs a bitwise XOR operation between the two values. *\n *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n /** Inverts the bits in this value. *\n *\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n /**\n * Converts this [UInt] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n * Converts this [UInt] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\n * Note that the resulting `Short` value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n /**\n * Converts this [UInt] value to [Int].\n *\n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n *\n * The resulting `Int` value has the same binary representation as this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data\n /**\n * Converts this [UInt] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UInt`.\n *\n * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n /**\n * Converts this [UInt] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /**\n * Converts this [UInt] value to [UShort].\n *\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = data.toUShort()\n /** Returns this value. *\n *\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = this\n /**\n * Converts this [UInt] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n /**\n * Converts this [UInt] value to

```



```

Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n /** Adds the
other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value
to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n /** Subtracts the other value from
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
/** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value, truncating the
result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n /**\n * Calculates the remainder of truncating division of this
value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n /**\n * Divides this value by

```

```

the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n /**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less
than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n *\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n
*\n * @sample samples.misc.Builtins.inc\n *\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UShort = UShort(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample
samples.misc.Builtins.dec\n *\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort =
UShort(data.dec())\n\n /** Creates a range from this value to the specified [other] value. *\n
@\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UShort): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. *\n
@\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort = UShort(this.data and
other.data)\n\n /** Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n\n /** Performs a bitwise XOR
operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort):
UShort = UShort(this.data xor other.data)\n\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n
public inline fun inv(): UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n *\n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `UShort`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits
of this `UShort` value.\n * Note that the resulting `Byte` value may be negative.\n *\n
@\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort]
value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value
represents\n * the same numerical value as this `UShort`. Otherwise the result is negative.\n *\n * The
resulting `Short` value has the same binary representation as this `UShort` value.\n *\n
@\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data\n\n /**\n * Converts this [UShort] value
to [Int].\n *\n * The resulting `Int` value represents the same numerical value as this `UShort`.\n *\n * The
least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value.\n * whereas the

```

```

most significant 16 bits are filled with zeros.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int
= data.toInt() and 0xFFFF\n /**\n * Converts this [UShort] value to [Long].\n *^n * The resulting `Long`
value represents the same numerical value as this `UShort`.\n *^n * The least significant 16 bits of the resulting
`Long` value are the same as the bits of this `UShort` value,\n * whereas the most significant 48 bits are filled
with zeros.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and
0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\n *^n * If this value is less than or equals to
[UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UShort`.\n
*^n * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\n
 *^n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. *^n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n *^n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*^n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n
 *^n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *^n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n *^n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the
most significant 48 bits are filled with zeros.\n
 *^n @kotlin.internal.InlineOnly\n public inline fun toULong():
ULong = ULong(data.toLong() and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n *^n *
The resulting `Float` value represents the same numerical value as this `UShort`.\n *^n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this
[UShort] value to [Double].\n *^n * The resulting `Double` value represents the same numerical value as this
`UShort`.\n *^n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n}n\n/**\n * Converts this
[Byte] value to [UShort].\n *^n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n *^n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n
 *^n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Short] value to
[UShort].\n *^n * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.\n *^n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
 *^n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
npublic inline fun Short.toUShort(): UShort = UShort(this)\n\n /**\n * Converts this [Int] value to [UShort].\n *^n * If
this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n *
the same numerical value as this `Int`.\n *^n * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.\n
 *^n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Long] value to
[UShort].\n *^n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `Long`.\n *^n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.\n
 *^n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n *^n\n public class CharRange(start: Char, endInclusive:
Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n override val start: Char get() = first\n
override val endInclusive: Char get() = last\n\n override fun contains(value: Char): Boolean = first <= value &&
value <= last\n\n /**\n * Checks whether the range is empty.\n *^n * The range is empty if its start value is

```

```

greater than the end value.\n *\n override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is CharRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first.code + last.code)\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty range of values of type Char. *\n public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n }\n\n /** A range of values of type `Int`. *\n public class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n override val start: Int get() = first\n override val endInclusive: Int get() = last\n\n override fun contains(value: Int): Boolean = first <= value && value <= last\n\n /** \n * Checks whether the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n *\n override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is IntRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first + last)\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty range of values of type Int. *\n public val EMPTY: IntRange = IntRange(1, 0)\n }\n\n /** A range of values of type `Long`. *\n public class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n override val start: Long get() = first\n override val endInclusive: Long get() = last\n\n override fun contains(value: Long): Boolean = first <= value && value <= last\n\n /** \n * Checks whether the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n *\n override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is LongRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty range of values of type Long. *\n public val EMPTY: LongRange = LongRange(1, 0)\n }\n\n /**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("CollectionsKt")\n @file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n package kotlin.collections\n\n import kotlin.contracts.*\n import kotlin.random.Random\n\n internal object EmptyIterator : ListIterator<Nothing> {\n override fun hasNext(): Boolean = false\n override fun hasPrevious(): Boolean = false\n override fun nextIndex(): Int = 0\n override fun previousIndex(): Int = -1\n override fun next(): Nothing = throw NoSuchElementException()\n override fun previous(): Nothing = throw NoSuchElementException()\n }\n\n internal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n private const val serialVersionUID: Long = -7390468764508069838L\n\n override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n override fun hashCode(): Int = 1\n override fun toString(): String = "[]"\n override val size: Int get() = 0\n override fun isEmpty(): Boolean = true\n override fun contains(element: Nothing): Boolean = false\n override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n override fun indexOf(element: Nothing): Int = -1\n override fun lastIndexOf(element: Nothing): Int = -1\n\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n override fun listIterator(index: Int): ListIterator<Nothing> {\n if (index != 0) throw IndexOutOfBoundsException("Index: $index")\n return EmptyIterator\n }\n\n override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n if (fromIndex == 0 && toIndex == 0) return this\n throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n }\n\n private fun readResolve(): Any = EmptyList\n\n internal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\n\n private class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n override val size: Int get() = values.size\n override fun isEmpty(): Boolean = values.isEmpty()\n override fun contains(element: T): Boolean = values.contains(element)\n override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n override fun iterator():

```

```

Iterator<T> = values.iterator()\n // override hidden toArray implementation to prevent copying of values array\n
public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)\n\n/**\n * Returns an empty read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n
*\npublic fun <T> emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.readOnlyList\n
*\npublic fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample
samples.collections.Collections.Lists.emptyMutableList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> = ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n
*\npublic fun <T> mutableListOf(vararg elements: T): MutableList<T> =\n if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new [ArrayList] with the given elements.\n * @sample
samples.collections.Collections.Lists.arrayList\n
*\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\n if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n
*\npublic fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n
*\npublic fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n * @sample
samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n * @sample
samples.collections.Collections.Lists.mutableListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\n val list = ArrayList<T>(size)\n repeat(size) { index -> list.add(init(index)) }\n return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list with the same elements.\n * The list passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n * The returned list is serializable (JVM).\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E>\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list with the same elements.\n * The list passed as a receiver to the [builderAction] is valid only inside that

```



function.\n \* Using it outside of the function produces an unspecified behavior.\n \*\n \* The returned list is serializable (JVM).\n \*\n \* [capacity] is used to hint the expected number of elements added in the [builderAction].\n \*\n \* @throws IllegalArgumentException if the given [capacity] is negative.\n \*\n \* @sample samples.collections.Builders.Lists.buildListSampleWithCapacity\n \*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY\_ONCE) }\n return buildListInternal(capacity, builderAction)\n }\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n internal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit): List<E>\n\n /\*\*\n \* Returns an [IntRange] of the valid indices for this collection.\n \* @sample samples.collections.Collections.Collections.indicesOfCollection\n \*\n public val Collection<\*>.indices: IntRange\n get() = 0..size - 1\n\n /\*\*\n \* Returns the index of the last item in the list or -1 if the list is empty.\n \*\n \* @sample samples.collections.Collections.Lists.lastIndexOfList\n \*\n public val <T> List<T>.lastIndex: Int\n get() = this.size - 1\n\n /\*\*\n \* Returns `true` if the collection is not empty.\n \* @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n \*\n @kotlin.internal.InlineOnly\n public inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n /\*\*\n \* Returns `true` if this nullable collection is either null or empty.\n \* @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n \*\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n return this == null || this.isEmpty()\n }\n\n /\*\*\n \* Returns this Collection if it's not `null` and the empty list otherwise.\n \* @sample samples.collections.Collections.Collections.collectionOrElse\n \*\n @kotlin.internal.InlineOnly\n public inline fun <T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()\n\n /\*\*\n \* Returns this List if it's not `null` and the empty list otherwise.\n \* @sample samples.collections.Collections.Lists.listOrElse\n \*\n @kotlin.internal.InlineOnly\n public inline fun <T> List<T>?.orElse(): List<T> = this ?: emptyList()\n\n /\*\*\n \* Returns this collection if it's not empty\n \* or the result of calling [defaultValue] function if the collection is empty.\n \*\n \* @sample samples.collections.Collections.Collections.collectionIfEmpty\n \*\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<\*>, C : R =\n if (isEmpty()) defaultValue() else this\n\n /\*\*\n \* Checks if all elements in the specified collection are contained in this collection.\n \*\n \* Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n \* @sample samples.collections.Collections.Collections.collectionContainsAll\n \*\n @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER") // false warning, extension takes precedence in some cases\n @kotlin.internal.InlineOnly\n public inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n /\*\*\n \* Returns a new list with the elements of this list randomly shuffled\n \* using the specified [random] instance as the source of randomness.\n \*\n @SinceKotlin("1.3")\n public fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\n\n internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this\n }\n\n /\*\*\n \* Searches this list or its range for the provided [element] using the binary search algorithm.\n \* The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n \* otherwise the result is undefined.\n \*\n \* If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n \*\n \* `null` value is considered to be less than any non-null value.\n \*\n \* @return the index of the element, if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point `(-insertion point - 1)`.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted.\n \* @sample samples.collections.Collections.Lists.binarySearchOnComparable\n \*\n @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\n \*\n public fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex,

```

toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n\n while (low <= high) {\n val mid = (low +
high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = compareValues(midVal,
element)\n\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range
for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending
order according to the specified [comparator],\n * otherwise the result is undefined.\n * \n * If the list contains
multiple elements equal to the specified [element], there is no guarantee which one will be found.\n * \n * `null`
value is considered to be less than any non-null value.\n * \n * @return the index of the element, if it is contained in
the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The
insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified
subrange of list) still remains sorted according to the specified [comparator].\n * \n * @sample
samples.collections.Collections.Lists.binarySearchWithComparator\n */\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n
 rangeCheck(size, fromIndex, toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n\n while (low <=
high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp =
comparator.compare(midVal, element)\n\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n
 high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to
the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order
according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n * \n * If
the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n * \n *
`null` value is considered to be less than any non-null value.\n * \n * @return the index of the element with the
specified [key], if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point
`(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so
that the list (or the specified subrange of list) still remains sorted.\n * \n * @sample
samples.collections.Collections.Lists.binarySearchByKey\n */\npublic inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) ->
K?): Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this
overload --- too rare\n//\npublic fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,\n
fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n binarySearch(fromIndex, toIndex) {\n
 comparator.compare(selector(it), key) }\n\n\n/**\n * Searches this list or its range for an element for which the
given [comparison] function returns zero using the binary search algorithm.\n * \n * The list is expected to be sorted
so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values
come before zero and zeroes come before positive values.\n * Otherwise, the result is undefined.\n * \n * If the list
contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n * \n *
@param comparison function that returns zero when called on the list element being searched.\n * On the elements coming
before the target element, the function must return negative values;\n * on the elements coming after the target element,
the function must return positive values.\n * \n * @return the index of the found element, if
it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point -
1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or
the specified subrange of list) still remains sorted.\n * \n * @sample
samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n */\npublic fun <T>
List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n
 rangeCheck(size, fromIndex, toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n\n while (low <=
high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparison(midVal)\n\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n
 high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n\n/**\n * Checks that `from` and `to` are in\n * the range of [0..size] and throws an appropriate exception, if they aren't.\n * \n * @private fun rangeCheck(size: Int,

```

```

fromIndex: Int, toIndex: Int) {
 when {
 fromIndex > toIndex -> throw
IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
 fromIndex < 0 ->
throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
 toIndex > size -> throw
IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
 }
}
@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int):
Int
@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int):
Int
@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() { throw
ArithmeticException("Index overflow has happened.") }
@PublishedApi
@SinceKotlin("1.3")
internal fun
throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }
/* Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:OptIn(kotlin.experimental.
ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
private object
EmptyMap : Map<Any?, Nothing>, Serializable {
 private const val serialVersionUID: Long =
8246714829545688274
 override fun equals(other: Any?): Boolean = other is Map<*, *> &&
other.isEmpty()
 override fun hashCode(): Int = 0
 override fun toString(): String = "{}"
 override val
size: Int get() = 0
 override fun isEmpty(): Boolean = true
 override fun containsKey(key: Any?): Boolean =
false
 override fun containsValue(value: Nothing): Boolean = false
 override fun get(key: Any?): Nothing? =
null
 override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet
 override val keys: Set<Any?>
get() = EmptySet
 override val values: Collection<Nothing> get() = EmptyList
 private fun readResolve():
Any = EmptyMap
}
/** Returns an empty read-only map of specified type.
The returned map is
serializable (JVM).
@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
*/
public fun <K,
V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)
/** Returns a new read-only map with the specified contents, given as a list of pairs
where the first value is the key
and the second is the value.
If multiple pairs have the same key, the resulting map will contain the value
from the last of those pairs.
Entries of the map are iterated in the order they were specified.
The
returned map is serializable (JVM).
@sample samples.collections.Maps.Instantiation.mapFromPairs
*/
public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =
if (pairs.size > 0)
pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()
/** Returns an empty read-only
map.
The returned map is serializable (JVM).
@sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap
*/
@kotlin.internal.InlineOnly
public inline fun
<K, V> mapOf(): Map<K, V> = emptyMap()
/** Returns an empty new [MutableMap].
The returned
map preserves the entry iteration order.
@sample samples.collections.Maps.Instantiation.emptyMutableMap
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()
/** Returns a new [MutableMap] with the specified contents, given
as a list of pairs
where the first component is the key and the second is the value.
If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.
Entries of the map are
iterated in the order they were specified.
@sample
samples.collections.Maps.Instantiation.mutableMapFromPairs
*/
@sample
samples.collections.Maps.Instantiation.emptyMutableMap
*/
public fun <K, V> mutableMapOf(vararg pairs:
Pair<K, V>): MutableMap<K, V> =
LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs)
}
/** Returns an empty new [HashMap].
@sample
samples.collections.Maps.Instantiation.emptyHashMap
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()
/** Returns a new [HashMap] with the specified contents, given as a list of pairs
where the first component is the key and the second is the value.
@sample
samples.collections.Maps.Instantiation.hashMapFromPairs
*/
public fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }
}

```

Returns an empty new [LinkedHashMap].

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()

```

Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs where the first component is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified.

```

@sample
samples.collections.Maps.Instantiation.linkedMapFromPairs

```

```

public fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))

```

Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs. The map passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. Entries of the map are iterated in the order they were added by the [builderAction]. The returned map is serializable (JVM).

```

@sample
samples.collections.Builders.Maps.buildMapSample

```

```

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {
 contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
 return
 buildMapInternal(builderAction)
}

```

```

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K,
V>

```

Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs. The map passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. [capacity] is used to hint the expected number of pairs added in the [builderAction]. Entries of the map are iterated in the order they were added by the [builderAction]. The returned map is serializable (JVM). @throws IllegalArgumentException if the given [capacity] is negative.

```

@sample
samples.collections.Builders.Maps.buildMapSample

```

```

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit):
Map<K, V> {
 contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
 return
 buildMapInternal(capacity,
 builderAction)
}

```

```

@PublishedApi
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
internal expect inline
fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit): Map<K, V>

```

Calculate the initial capacity of a map.

```

@PublishedApi
internal expect fun mapCapacity(expectedSize: Int):
Int

```

Returns true if this map is not empty.

```

@sample
samples.collections.Maps.Usage.mapIsNotEmpty

```

```

@kotlin.internal.InlineOnly
public inline fun <K, V>
Map<out K, V>.isEmpty(): Boolean = !isNotEmpty()

```

Returns true if this nullable map is either null or empty.

```

@sample
samples.collections.Maps.Usage.mapIsNullOrEmpty

```

```

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K,
V>?.isEmpty(): Boolean {
 contract {
 returns(false) implies (this@isEmpty != null)
 }
 return this == null || isEmpty()
}

```

Returns the [Map] if its not null, or the empty [Map] otherwise.

```

@sample
samples.collections.Maps.Usage.mapOrElse

```

```

@kotlin.internal.InlineOnly
public inline fun
<K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()

```

Returns this map if it's not empty or the result of calling [defaultValue] function if the map is empty.

```

@sample
samples.collections.Maps.Usage.mapIfEmpty

```

```

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =
 if (isEmpty())
 defaultValue() else this

```

Checks if the map contains the given key. This method allows to use the x in map syntax for checking whether an object is contained in the map.

```

@sample
samples.collections.Maps.Usage.containsKey

```

```

@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)

```

Returns the value corresponding to the given [key], or null if such a key is not present in the map.

```

*@kotlin.internal.InlineOnlypublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =@Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)@kotlin.internal.InlineOnlypublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {put(key, value)@kotlin.internal.InlineOnlypublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =@Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)@kotlin.internal.InlineOnlypublic inline fun <K, V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)@kotlin.internal.InlineOnlypublic inline fun <K, V> MutableMap<out K, V>.remove(key: K): V? =@Suppress("UNCHECKED_CAST") (this as MutableMap<K, V>).remove(key)@kotlin.internal.InlineOnlypublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key@kotlin.internal.InlineOnlypublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value@kotlin.internal.InlineOnlypublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)@kotlin.internal.InlineOnlypublic inline fun <K, V> Map<K, V>.getOrElse(key: K, default: () -> V): V = get(key) ?: default()@kotlin.internal.InlineOnlypublic inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, default: () -> V): V {val value = get(key)if (value == null && !containsKey(key)) {return default()else {@Suppress("UNCHECKED_CAST") return value as V}@kotlin.internal.InlineOnlypublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, default: () -> V): V {val value = get(key)return if (value == null) {val answer = default()put(key, answer)return answer}else {return value}@kotlin.internal.InlineOnlypublic inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()@kotlin.jvm.JvmName("mutableIterator")public inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> =

```

```

entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the
values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K, V,
R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) ->
R): M {\n return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given
[destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this
[Map] and the values of this map.\n */\n * In case if any two entries are mapped to the equal keys, the value of the
latter one will overwrite\n * the value associated with the former one.\n */\npublic inline fun <K, V, R, M :
MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M
{\n return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into
this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K,
V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n
put(key, value)\n }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first
component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in
V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n put(key, value)\n
}\n}\n\n/**\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the
pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs:
Sequence<Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n put(key, value)\n }\n}\n\n/**\n * Returns a
new map with entries having the keys of this map and the values obtained by applying the [transform]\n * function
to each entry in this [Map].\n */\n * The returned map preserves the entry iteration order of the original map.\n */\n *
@sample samples.collections.Maps.Transformations.mapValues\n */\npublic inline fun <K, V, R> Map<out K,
V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n return mapValuesTo(LinkedHashMap<K,
R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries
having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this
map.\n */\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the
value associated with the former one.\n */\n * The returned map preserves the entry iteration order of the original
map.\n */\n * @sample samples.collections.Maps.Transformations.mapKeys\n */\npublic inline fun <K, V, R>
Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n return
mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\n */\n * The returned map
preserves the entry iteration order of the original map.\n */\n * @sample samples.collections.Maps.Filtering.filterKeys\n
*/\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n val result =
LinkedHashMap<K, V>()\n for (entry in this) {\n if (predicate(entry.key)) {\n result.put(entry.key,
entry.value)\n }\n }\n return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values
matching the given [predicate].\n */\n * The returned map preserves the entry iteration order of the original map.\n */\n *
@sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry
in this) {\n if (predicate(entry.value)) {\n result.put(entry.key, entry.value)\n }\n }\n return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n */\n * @return the destination map.\n */\n * @sample samples.collections.Maps.Filtering.filterTo\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate:
(Map.Entry<K, V>) -> Boolean): M {\n for (element in this) {\n if (predicate(element)) {\n
destination.put(element.key, element.value)\n }\n }\n return destination\n}\n\n/**\n * Returns a new map
containing all key-value pairs matching the given [predicate].\n */\n * The returned map preserves the entry iteration
order of the original map.\n */\n * @sample samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return
filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate]
into the given [destination].\n */\n * @return the destination map.\n */\n * @sample
samples.collections.Maps.Filtering.filterNotTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>

```

```

Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {
 for (element in this)
 if (!predicate(element))
 destination.put(element.key, element.value)
 return destination
}

Returns a new map containing all key-value pairs not matching the given [predicate].

The returned map preserves the entry iteration order of the original map.

@sample
samples.collections.Maps.Filtering.filterNot

public inline fun <K, V> Map<out K, V>.filterNot(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {
 return filterNotTo(LinkedHashMap<K, V>(),
predicate)
}

Returns a new map containing all key-value pairs from the given collection of pairs.

The returned map preserves the entry iteration order of the original collection.

If any of two pairs would have the same key the last one gets added to the map.

public fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
 if (this is Collection)
 return when (size) {
 0 -> emptyMap()
 1 -> mapOf(if (this is List) this[0] else iterator().next())
 else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
 }
 return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()
}

Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.

public fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =
 destination.apply {
putAll(this@toMap)
}

Returns a new map containing all key-value pairs from the given array of pairs.

The returned map preserves the entry iteration order of the original array.

If any of two pairs would have the same key the last one gets added to the map.

public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> =
 when (size) {
 0 -> emptyMap()
 1 -> mapOf(this[0])
 else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
 }

Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.

public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =
 destination.apply {
putAll(this@toMap)
}

Returns a new map containing all key-value pairs from the given sequence of pairs.

The returned map preserves the entry iteration order of the original sequence.

If any of two pairs would have the same key the last one gets added to the map.

public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> =
 toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()

Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.

public fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =
 destination.apply {
putAll(this@toMap)
}

Returns a new read-only map containing all key-value pairs from the original map.

The returned map preserves the entry iteration order of the original map.

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> =
 when (size) {
 0 -> emptyMap()
 1 -> singletonMap()
 else -> mutableMap()
 }

Returns a new mutable map containing all key-value pairs from the original map.

The returned map preserves the entry iteration order of the original map.

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> =
 LinkedHashMap(this)

Populates and returns the [destination] mutable map with key-value pairs from the given map.

@SinceKotlin("1.1")
public fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =
 destination.apply {
putAll(this@toMap)
}

Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].

The returned map preserves the entry iteration order of the original map.

The [pair] is iterated in the end if it has a unique key.

public operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =
 if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply {
put(pair.first, pair.second)
}

Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].

The returned map preserves the entry iteration order of the original map.

Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.

public operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =
 if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply {
putAll(pairs)
}

Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].

The returned map preserves the entry iteration order of the original map.

Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.

public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =
 if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply {
putAll(pairs)
}

Creates a new read-only map by

```

replacing or adding entries to this map from a given sequence of key-value [pairs].

`plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =` LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()

\* The returned map preserves the entry iteration order of the original map.

\* Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.

`plus(map: Map<out K, V>): Map<K, V> =` LinkedHashMap(this).apply { putAll(map) }

\* The returned map preserves the entry iteration order of the original map.

\* Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].

`plusAssign(pair: Pair<K, V>) {` put(pair.first, pair.second)

\* Appends or replaces the given [pair] in this mutable map.

`plusAssign(pairs: Iterable<Pair<K, V>>) {` putAll(pairs)

\* Appends or replaces all pairs from the given collection of [pairs] in this mutable map.

`plusAssign(pairs: Array<out Pair<K, V>>) {` putAll(pairs)

\* Appends or replaces all pairs from the given array of [pairs] in this mutable map.

`plusAssign(pairs: Sequence<Pair<K, V>>) {` putAll(pairs)

\* Appends or replaces all entries from the given [map] in this mutable map.

`minus(key: K): Map<K, V> =` this.toMutableMap().apply { minusAssign(key) }

\* Returns a map containing all entries of the original map except the entry with the given [key].

\* The returned map preserves the entry iteration order of the original map.

`minus(keys: Iterable<K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }

\* Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] collection.

\* The returned map preserves the entry iteration order of the original map.

`minus(keys: Sequence<K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }

\* Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] array.

\* The returned map preserves the entry iteration order of the original map.

`minus(keys: Array<out K>): Map<K, V> =` this.toMutableMap().apply { minusAssign(keys) }

\* Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] sequence.

\* The returned map preserves the entry iteration order of the original map.

`minusAssign(key: K) {` remove(key)

\* Removes the entry with the given [key] from this mutable map.

`minusAssign(keys: Iterable<K>) {` this.keys.removeAll(keys)

\* Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

`minusAssign(keys: Array<out K>) {` this.keys.removeAll(keys)

\* Removes all entries from the keys of which are contained in the given [keys] array from this mutable map.

`minusAssign(keys: Sequence<K>) {` this.keys.removeAll(keys)

\* Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.

`optimizeReadOnlyMap() =` when (size) { 0 -> emptyMap() 1 -> toSingletonMapOrSelf() }

\* Copyright 2010-2021 JetBrains s.r.o. and Kotlin



Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```

\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("SetsKt")\n\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n private const val serialVersionUID: Long = 3406603774387020532\n\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n\n override fun hashCode(): Int = 0\n\n override fun toString(): String = "[]"\n\n override val size: Int get() = 0\n\n override fun isEmpty(): Boolean = true\n\n override fun contains(element: Nothing): Boolean = false\n\n override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n\n}\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample\n samples.collections.Collections.Sets.emptyReadOnlySet\n */\n\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample\n samples.collections.Collections.Sets.readOnlySet\n */\n\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample\n samples.collections.Collections.Sets.emptyReadOnlySet\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty new [MutableSet].\n * The returned set preserves the element iteration order.\n * @sample\n samples.collections.Collections.Sets.emptyMutableSet\n */\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample\n samples.collections.Collections.Sets.mutableSet\n */\n\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [HashSet].\n */\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n\n/**\n * Returns a new [HashSet] with the given elements.\n */\n\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [LinkedHashSet].\n * @sample\n samples.collections.Collections.Sets.emptyLinkedHashSet\n */\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample\n samples.collections.Collections.Sets.linkedHashSet\n */\n\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns a new read-only set either with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable (JVM).\n * @sample\n samples.collections.Collections.Sets.setOfNotNull\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns a new read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample\n samples.collections.Collections.Sets.setOfNotNull\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Any> setOfNotNull(vararg elements: T?): Set<T> {\n return elements.filterNotNullTo(LinkedHashSet())\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same elements.\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n * Elements of the set are iterated in the order they were added by the [builderAction].\n * The returned set is serializable (JVM).\n * @sample\n samples.collections.Builders.Sets.buildSetSample\n */\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n contract {

```

```

callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } \n return
buildSetInternal(builderAction) \n} \n \n @PublishedApi \n @SinceKotlin("1.3") \n @kotlin.internal.InlineOnly \n intern
al expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.) -> Unit): Set<E> \n \n /** \n * Builds a
new read-only [Set] by populating a [MutableSet] using the given [builderAction] \n * and returning a read-only set
with the same elements. \n * \n * The set passed as a receiver to the [builderAction] is valid only inside that
function. \n * Using it outside of the function produces an unspecified behavior. \n * \n * [capacity] is used to hint the
expected number of elements added in the [builderAction]. \n * \n * Elements of the set are iterated in the order they
were added by the [builderAction]. \n * \n * The returned set is serializable (JVM). \n * \n * @throws
IllegalArgumentException if the given [capacity] is negative. \n * \n * @sample
samples.collections.Builders.Sets.buildSetSample \n
*/ \n @SinceKotlin("1.6") \n @WasExperimental(ExperimentalStdlibApi::class) \n @kotlin.internal.InlineOnly \n publi
c inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.) -> Unit): Set<E> { \n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) } \n return buildSetInternal(capacity,
builderAction) \n} \n \n @PublishedApi \n @SinceKotlin("1.3") \n @kotlin.internal.InlineOnly \n internal expect inline
fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.) -> Unit): Set<E> \n \n /** \n * Returns this Set
if it's not `null` and the empty set otherwise. \n * \n * @kotlin.internal.InlineOnly \n public inline fun <T>
Set<T>?.orEmpty(): Set<T> = this ?: emptySet() \n \n internal fun <T> Set<T>.optimizeReadOnlySet() = when (size)
{ \n 0 -> emptySet() \n 1 -> setOf(iterator().next()) \n else -> this \n} \n \n /** \n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file. \n
*/ \n \n @file:kotlin.jvm.JvmMultifileClass \n @file:kotlin.jvm.JvmName("StringsKt") \n @file:Suppress("PLATFOR
M_CLASS_MAPPED_TO_KOTLIN") \n \n package kotlin.text \n \n /** \n * Parses the string as a signed [Byte]
number and returns the result \n * or `null` if the string is not a valid representation of a number. \n
*/ \n @SinceKotlin("1.1") \n public fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10) \n \n /** \n * Parses
the string as a signed [Byte] number and returns the result \n * or `null` if the string is not a valid representation of a
number. \n * \n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion. \n * \n @SinceKotlin("1.1") \n public fun String.toByteArrayOrNull(radix: Int): Byte? { \n val int =
this.toIntOrNull(radix) ?: return null \n if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null \n
return int.toByteArray() \n} \n \n /** \n * Parses the string as a [Short] number and returns the result \n * or `null` if the string
is not a valid representation of a number. \n * \n @SinceKotlin("1.1") \n public fun String.toShortOrNull(): Short? =
toShortOrNull(radix = 10) \n \n /** \n * Parses the string as a [Short] number and returns the result \n * or `null` if the
string is not a valid representation of a number. \n * \n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion. \n * \n @SinceKotlin("1.1") \n public fun String.toShortOrNull(radix:
Int): Short? { \n val int = this.toIntOrNull(radix) ?: return null \n if (int < Short.MIN_VALUE || int >
Short.MAX_VALUE) return null \n return int.toShort() \n} \n \n /** \n * Parses the string as an [Int] number and
returns the result \n * or `null` if the string is not a valid representation of a number. \n
*/ \n @SinceKotlin("1.1") \n public fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10) \n \n /** \n * Parses the
string as an [Int] number and returns the result \n * or `null` if the string is not a valid representation of a number. \n
*/ \n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion. \n
*/ \n @SinceKotlin("1.1") \n public fun String.toIntOrNull(radix: Int): Int? { \n checkRadix(radix) \n \n val length
= this.length \n if (length == 0) return null \n \n val start: Int \n val isNegative: Boolean \n val limit: Int \n \n val firstChar = this[0] \n if (firstChar < '0') { // Possible leading sign \n if (length == 1) return null // non-digit
(possible sign) only, no digits after \n \n start = 1 \n \n if (firstChar == '-') { \n isNegative = true \n
limit = Int.MIN_VALUE \n } else if (firstChar == '+') { \n isNegative = false \n limit = -
Int.MAX_VALUE \n } else \n return null \n } else { \n start = 0 \n isNegative = false \n limit
= -Int.MAX_VALUE \n } \n \n val limitForMaxRadix = (-Int.MAX_VALUE) / 36 \n var limitBeforeMul =
limitForMaxRadix \n var result = 0 \n for (i in start until length) { \n val digit = digitOf(this[i], radix) \n \n
if (digit < 0) return null \n if (result < limitBeforeMul) { \n if (limitBeforeMul == limitForMaxRadix) { \n

```

```

 limitBeforeMul = limit / radix\n\n if (result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n\n result *= radix\n\n if (result < limit + digit)\nreturn null\n\n result -= digit\n\n }\n\n return if (isNegative) result else -result\n}\n\n/**\n * Parses the string\n as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string\n as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a\n number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number\n conversion.\n */\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(radix: Int): Long? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val start: Int\n val isNegative:\n Boolean\n val limit: Long\n val firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if\n (length == 1) return null // non-digit (possible sign) only, no digits after\n start = 1\n if (firstChar == '-')\n {\n isNegative = true\n limit = Long.MIN_VALUE\n } else if (firstChar == '+') {\n isNegative = false\n limit = -Long.MAX_VALUE\n } else\n return null\n } else {\n start =\n 0\n isNegative = false\n limit = -Long.MAX_VALUE\n }\n\n val limitForMaxRadix = (-\n Long.MAX_VALUE) / 36\n\n var limitBeforeMul = limitForMaxRadix\n var result = 0L\n for (i in start until\n length) {\n val digit = digitOf(this[i], radix)\n if (digit < 0) return null\n if (result < limitBeforeMul)\n {\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n }\n if\n (result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n }\n\n result *= radix\n\n if (result < limit + digit) return null\n\n result -= digit\n\n }\n\n return if (isNegative) result else -result\n}\n\ninternal fun numberFormatError(input: String): Nothing = throw\n NumberFormatException("Invalid number format: '$input')\n", ")\n\n * Copyright 2010-2021 JetBrains s.r.o. and\n Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\nimport\n kotlin.jvm.JvmInline\nimport kotlin.math.*\n\n/**\n * Represents the amount of time one instant of time is away\n from another instant.\n * A negative duration is possible in a situation when the second instant is earlier than the\n first one.\n * The type can store duration values up to 146 years with nanosecond precision,\n * and up to 146 million years with millisecond precision.\n * If a duration-returning operation provided in `kotlin.time`\n produces a duration value that doesn't fit into the above range,\n * the returned `Duration` is infinite.\n * An\n infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n * To construct a\n duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds],\n and so on,\n * available on [Int], [Long], and [Double] numeric types.\n * To get the value of this duration\n expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or\n the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n */\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@JvmInline\npublic value class\n Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n private val value: Long\n get() = rawValue shr 1\n private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n private fun\n isInNanos() = unitDiscriminator == 0\n private fun isInMillis() = unitDiscriminator == 1\n private val\n storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS\n\n init\n {\n if (durationAssertionsEnabled) {\n if (isInNanos()) {\n if (value !in -\n MAX_NANOS..MAX_NANOS) throw AssertionError("$value ns is out of nanoseconds range")\n } else\n {\n if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("$value ms is out of milliseconds\n range")\n if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw\n AssertionError("$value ms is denormalized")\n }\n }\n }\n\n companion object {\n /** The\n duration equal to exactly 0 seconds. */\n public val ZERO: Duration = Duration(0L)\n /** The duration\n whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n public val\n INFINITE: Duration = durationOfMillis(MAX_MILLIS)\n internal val NEG_INFINITE: Duration =\n durationOfMillis(-MAX_MILLIS)\n /** Converts the given time duration [value] expressed in the specified\n [sourceUnit] into the specified [targetUnit]. */\n @ExperimentalTime\n public fun convert(value: Double,\n

```



```

@kotlin.internal.InlineOnly\n public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n /**
Returns a [Duration] equal to this [Long] number of days. */\n @kotlin.internal.InlineOnly\n public inline
val Long.days get() = toDuration(DurationUnit.DAYS)\n\n /**\n * Returns a [Duration] equal to this
[Double] number of days.\n *\n * Depending on its magnitude, the value is rounded to an integer number
of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.days get() =
toDuration(DurationUnit.DAYS)\n\n // deprecated static factory functions\n\n /** Returns a [Duration]
representing the specified [value] number of nanoseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Int): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of nanoseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Long.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Long): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n /**\n * Returns a [Duration] representing the
specified [value] number of nanoseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Double.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Double): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.microseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Long.microseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Long): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n /**\n * Returns a [Duration] representing the
specified [value] number of microseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Double.microseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Double): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of milliseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.milliseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Int): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of milliseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Long.milliseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Long): Duration =

```

```

value.toDuration(DurationUnit.MILLISECONDS)\n\n /**\n * Returns a [Duration] representing the
specified [value] number of milliseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Double.milliseconds' extension property from Duration.Companion instead."),
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n\n /** Returns a [Duration] representing the specified
[value] number of seconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Int.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n /** Returns a [Duration]
representing the specified [value] number of seconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n
 @Deprecated("Use 'Long.seconds' extension property from Duration.Companion instead.",
ReplaceWith("value.seconds", "kotlin.time.Duration.Companion.seconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun seconds(value: Long): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n\n /**\n * Returns a [Duration] representing the specified
[value] number of seconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Double.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n /** Returns a
[Duration] representing the specified [value] number of minutes. *\n @SinceKotlin("1.5")\n
 @ExperimentalTime\n @Deprecated("Use 'Int.minutes' extension property from Duration.Companion
instead.", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun minutes(value: Int): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] representing the specified [value]
number of minutes. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Long.minutes' extension property from Duration.Companion instead.", ReplaceWith("value.minutes",
"kotlin.time.Duration.Companion.minutes"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun minutes(value: Long): Duration = value.toDuration(DurationUnit.MINUTES)\n\n\n /**\n * Returns a
[Duration] representing the specified [value] number of minutes.\n *\n * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n *\n @SinceKotlin("1.5")\n
 @ExperimentalTime\n @Deprecated("Use 'Double.minutes' extension property from Duration.Companion
instead.", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun minutes(value: Double): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] representing the specified [value]
number of hours. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.hours'
extension property from Duration.Companion instead.", ReplaceWith("value.hours",
"kotlin.time.Duration.Companion.hours"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n\n /** Returns a [Duration]
representing the specified [value] number of hours. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n
 @Deprecated("Use 'Long.hours' extension property from Duration.Companion instead.",
ReplaceWith("value.hours", "kotlin.time.Duration.Companion.hours"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun hours(value: Long): Duration =
value.toDuration(DurationUnit.HOURS)\n\n\n /**\n * Returns a [Duration] representing the specified
[value] number of hours.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Double.hours'
extension property from Duration.Companion instead.", ReplaceWith("value.hours",

```

```

\kotlin.time.Duration.Companion.hours\))\n @DeprecatedSinceKotlin(warningSince = `1.6`)\n public
fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)\n\n /** Returns a [Duration]
representing the specified [value] number of days. */\n @SinceKotlin(`1.5`)\n @ExperimentalTime\n @Deprecated(`Use 'Int.days' extension property from Duration.Companion instead.`,\n ReplaceWith(`value.days``),\n\kotlin.time.Duration.Companion.days\))\n @DeprecatedSinceKotlin(warningSince = `1.6`)\n public
fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)\n\n /** Returns a [Duration]
representing the specified [value] number of days. */\n @SinceKotlin(`1.5`)\n @ExperimentalTime\n @Deprecated(`Use 'Long.days' extension property from Duration.Companion instead.`,\n ReplaceWith(`value.days`` , \kotlin.time.Duration.Companion.days\`))\n
@DeprecatedSinceKotlin(warningSince = `1.6`)\n public fun days(value: Long): Duration =
value.toDuration(DurationUnit.DAYS)\n\n /**\n * Returns a [Duration] representing the specified [value]
number of days.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n
*/\n @SinceKotlin(`1.5`)\n @ExperimentalTime\n @Deprecated(`Use 'Double.days' extension
property from Duration.Companion instead.` , ReplaceWith(`value.days`` ,\n
\kotlin.time.Duration.Companion.days\`))\n @DeprecatedSinceKotlin(warningSince = `1.6`)\n public
fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)\n\n /**\n * Parses a string that
represents a duration and returns the parsed [Duration] value.\n *\n * The following formats are
accepted:\n *\n * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S` , see [toIsoString] and
[parseIsoString].\n * - The format of string returned by the default [Duration.toString] and `toString` in a
specific unit,\n * e.g. `10s` , `1h 30m` or `-(1h 30m)`.\n *\n * @throws IllegalArgumentException if
the string doesn't represent a duration in any of the supported formats.\n * @sample
samples.time.Durations.parse\n */\n public fun parse(value: String): Duration = try {\n
parseDuration(value, strictIso = false)\n } catch (e: IllegalArgumentException) {\n throw
IllegalArgumentException("Invalid duration string format: '$value'.", e)\n }\n\n /**\n * Parses a
string that represents a duration in ISO-8601 format and returns the parsed [Duration] value.\n *\n *
@throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.\n * @sample
samples.time.Durations.parseIsoString\n */\n public fun parseIsoString(value: String): Duration = try {\n
parseDuration(value, strictIso = true)\n } catch (e: IllegalArgumentException) {\n throw
IllegalArgumentException("Invalid ISO duration string format: '$value'.", e)\n }\n\n /**\n * Parses a
string that represents a duration and returns the parsed [Duration] value,\n * or `null` if the string doesn't
represent a duration in any of the supported formats.\n *\n * The following formats are accepted:\n
*\n * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S` , see [toIsoString] and [parseIsoString].\n * -
The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n * e.g. `10s` ,
`1h 30m` or `-(1h 30m)`.\n * @sample samples.time.Durations.parse\n */\n public fun
parseOrNull(value: String): Duration? = try {\n parseDuration(value, strictIso = false)\n } catch (e:
IllegalArgumentException) {\n null\n }\n\n /**\n * Parses a string that represents a duration in
ISO-8601 format and returns the parsed [Duration] value,\n * or `null` if the string doesn't represent a
duration in ISO-8601 format.\n * @sample samples.time.Durations.parseIsoString\n */\n public fun
parseIsoStringOrNull(value: String): Duration? = try {\n parseDuration(value, strictIso = true)\n } catch
(e: IllegalArgumentException) {\n null\n }\n }\n\n // arithmetic operators\n\n /** Returns the
negative of this value. */\n public operator fun unaryMinus(): Duration = durationOf(-value,\n unitDiscriminator)\n\n /**\n * Returns a duration whose value is the sum of this and [other] duration values.\n
*\n * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
* e.g. when adding infinite durations of different sign.\n */\n public operator fun plus(other: Duration):
Duration {\n when {\n this.isInfinite() -> {\n if (other.isFinite() || (this.rawValue xor
other.rawValue >= 0))\n return this\n else\n throw
IllegalArgumentException("Summing infinite durations of different signs yields an undefined result.")\n }\n
other.isInfinite() -> return other\n }\n return when {\n this.unitDiscriminator ==

```

```

other.unitDiscriminator -> {\n val result = this.value + other.value // never overflows long, but can
overflow long63\n when {\n isInNanos() ->\n
durationOfNanosNormalized(result)\n else ->\n durationOfMillisNormalized(result)\n
}\n }\n this.isInMillis() ->\n addValuesMixedRanges(this.value, other.value)\n
else ->\n addValuesMixedRanges(other.value, this.value)\n }\n }\n private fun
addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n val otherMillis =
nanosToMillis(otherNanos)\n val resultMillis = thisMillis + otherMillis\n return if (resultMillis in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n val otherNanoRemainder = otherNanos -
millisToNanos(otherMillis)\n durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n }
else {\n durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n }\n /**\n
* Returns a duration whose value is the difference between this and [other] duration values.\n
* \n
* @throws
IllegalArgumentOutOfRangeException if the operation results in an undefined value for the given arguments,\n
* e.g. when
subtracting infinite durations of the same sign.\n
* \n
public operator fun minus(other: Duration): Duration =
this + (-other)\n
/**\n
* Returns a duration whose value is this duration value multiplied by the given [scale]
number.\n
* \n
* @throws
IllegalArgumentOutOfRangeException if the operation results in an undefined value for the given
arguments,\n
* e.g. when multiplying an infinite duration by zero.\n
* \n
public operator fun times(scale: Int):
Duration {\n if (isInfinite()) {\n return when {\n scale == 0 -> throw
IllegalArgumentOutOfRangeException("Multiplying infinite duration by zero yields an undefined result.")\n
scale > 0
-> this\n else -> -this\n }\n }\n if (scale == 0) return ZERO\n val value = value\n
val result = value * scale\n return if (isInNanos()) {\n if (value in (MAX_NANOS /
Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n // can't overflow nanos range for any
scale\n durationOfNanos(result)\n } else {\n if (result / scale == value) {\n
durationOfNanosNormalized(result)\n } else {\n val millis = nanosToMillis(value)\n
val remNanos = value - millisToNanos(millis)\n val resultMillis = millis * scale\n val
totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n if (resultMillis / scale == millis &&
totalMillis xor resultMillis >= 0) {\n durationOfMillis(totalMillis.coerceIn(-
MAX_MILLIS..MAX_MILLIS))\n } else {\n if (value.sign * scale.sign > 0) INFINITE
else NEG_INFINITE\n }\n }\n }\n } else {\n if (result / scale == value) {\n
durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n } else {\n if (value.sign
* scale.sign > 0) INFINITE else NEG_INFINITE\n }\n }\n }\n /**\n
* Returns a duration whose
value is this duration value multiplied by the given [scale] number.\n
* \n
* The operation may involve rounding
when the result cannot be represented exactly with a [Double] number.\n
* \n
* @throws
IllegalArgumentOutOfRangeException if the operation results in an undefined value for the given arguments,\n
* e.g. when
multiplying an infinite duration by zero.\n
* \n
public operator fun times(scale: Double): Duration {\n val
intScale = scale.roundToInt()\n if (intScale.toDouble() == scale) {\n return times(intScale)\n }\n }\n val unit = storageUnit\n val result = toDouble(unit) * scale\n return result.toDuration(unit)\n }\n }\n /**\n
* Returns a duration whose value is this duration value divided by the given [scale] number.\n
* \n
*
@throws
IllegalArgumentOutOfRangeException if the operation results in an undefined value for the given arguments,\n
* e.g. when
dividing zero duration by zero.\n
* \n
public operator fun div(scale: Int): Duration {\n if (scale ==
0) {\n return when {\n isPositive() -> INFINITE\n isNegative() -> NEG_INFINITE\n
else -> throw
IllegalArgumentOutOfRangeException("Dividing zero duration by zero yields an undefined result.")\n
}\n }\n if (isInNanos()) {\n return durationOfNanos(value / scale)\n } else {\n if
(isInfinite())\n return this * scale.sign\n val result = value / scale\n if (result in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n val rem = millisToNanos(value - (result *
scale)) / scale\n return durationOfNanos(millisToNanos(result) + rem)\n }\n return
durationOfMillis(result)\n }\n }\n }\n /**\n
* Returns a duration whose value is this duration value divided
by the given [scale] number.\n
* \n
* @throws
IllegalArgumentOutOfRangeException if the operation results in an
undefined value for the given arguments,\n
* e.g. when dividing an infinite duration by infinity or zero duration

```



```

by zero.\n */\n public operator fun div(scale: Double): Duration {\n val intScale = scale.roundToInt()\n if (intScale.toDouble() == scale && intScale != 0) {\n return div(intScale)\n }\n val unit =\n storageUnit\n val result = toDouble(unit) / scale\n return result.toDuration(unit)\n }\n /** Returns a\n number that is the ratio of this and [other] duration values. */\n public operator fun div(other: Duration): Double\n {\n val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n return this.toDouble(coarserUnit) /\n other.toDouble(coarserUnit)\n }\n /** Returns true, if the duration value is less than zero. */\n public fun\n isNegative(): Boolean = rawValue < 0\n /** Returns true, if the duration value is greater than zero. */\n public fun\n isPositive(): Boolean = rawValue > 0\n /** Returns true, if the duration value is infinite. */\n public fun\n isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n /**\n Returns true, if the duration value is finite. */\n public fun isFinite(): Boolean = !isInfinite()\n /** Returns the\n absolute value of this value. The returned value is always non-negative. */\n public val absoluteValue: Duration\n get() = if (isNegative()) -this else this\n override fun compareTo(other: Duration): Int {\n val compareBits =\n this.rawValue xor other.rawValue\n if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or\n same sign/same range\n return this.rawValue.compareTo(other.rawValue) // same sign/different\n ranges\n val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n return if (isNegative())\n -r else r\n }\n /**\n * Splits this duration into days, hours, minutes,\n seconds, and nanoseconds and executes the given [action] with these components.\n * The result of [action] is\n returned as the result of this function.\n * - `nanoseconds` represents the whole number of nanoseconds in\n this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds` represents the whole number of\n seconds in this duration, and its absolute value is less than 60;\n * - `minutes` represents the whole number of\n minutes in this duration, and its absolute value is less than 60;\n * - `hours` represents the whole number of hours\n in this duration, and its absolute value is less than 24;\n * - `days` represents the whole number of days in this\n duration.\n * - Infinite durations are represented as either [Long.MAX_VALUE] days, or\n [Long.MIN_VALUE] days (depending on the sign of infinity),\n * and zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -\n > T): T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n return\n action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n /**\n * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with\n these components.\n * The result of [action] is returned as the result of this function.\n * - `nanoseconds`\n represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds`\n represents the whole number of seconds in this duration, and its absolute value is less than 60;\n * -\n `minutes`\n represents the whole number of minutes in this duration, and its absolute value is less than 60;\n * -\n `hours`\n represents the whole number of hours in this duration.\n * - Infinite durations are represented as\n either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n * and\n zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (hours: Long, minutes: Int,\n seconds: Int, nanoseconds: Int) -> T): T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)\n }\n return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n /**\n * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these\n components.\n * The result of [action] is returned as the result of this function.\n * - `nanoseconds`\n represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds`\n represents the whole number of seconds in this duration, and its absolute value is less than 60;\n * -\n `minutes`\n represents the whole number of minutes in this duration.\n * - Infinite durations are represented as\n either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n * and\n zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (minutes: Long,\n seconds: Int, nanoseconds: Int) -> T): T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)\n }\n return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n }\n /**\n * Splits\n this duration into seconds, and nanoseconds and executes the given [action] with these components.\n * The result\n of [action] is returned as the result of this function.\n * - `nanoseconds`\n represents the whole number of

```

```

nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
 * - `seconds` represents the whole number of seconds in this duration.\n
 * Infinite durations are represented as either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n
 * and zero nanoseconds.\n
 * public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {\n
 * contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
 * return action(inWholeSeconds, nanosecondsComponent)\n
 * }\n
 * @PublishedApi\n
 * internal val hoursComponent: Int\n
 * get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n
 * @PublishedApi\n
 * internal val minutesComponent: Int\n
 * get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n
 * @PublishedApi\n
 * internal val secondsComponent: Int\n
 * get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n
 * @PublishedApi\n
 * internal val nanosecondsComponent: Int\n
 * get() = when {\n
 * isInfinite() -> 0\n
 * isInMillis() -> millisToNanos(value % 1_000).toInt()\n
 * else -> (value % 1_000_000_000).toInt()\n
 * }\n
 * }\n
 * // conversion to units\n
 * /**\n
 * * Returns the value of this duration expressed as a [Double] number of the specified [unit].\n
 * * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n
 * * An infinite duration value is converted either to [Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n
 * * public fun toDouble(unit: DurationUnit): Double {\n
 * return when (rawValue) {\n
 * INFINITE.rawValue -> Double.POSITIVE_INFINITY\n
 * NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n
 * else -> {\n
 * // TODO: whether it's ok to convert to Double before scaling\n
 * convertDurationUnit(value.toDouble(), storageUnit, unit)\n
 * }\n
 * }\n
 * }\n
 * /**\n
 * * Returns the value of this duration expressed as a [Long] number of the specified [unit].\n
 * * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n
 * * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n
 * * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n
 * * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n
 * * public fun toLong(unit: DurationUnit): Long {\n
 * return when (rawValue) {\n
 * INFINITE.rawValue -> Long.MAX_VALUE\n
 * NEG_INFINITE.rawValue -> Long.MIN_VALUE\n
 * else -> convertDurationUnit(value, storageUnit, unit)\n
 * }\n
 * }\n
 * /**\n
 * * Returns the value of this duration expressed as an [Int] number of the specified [unit].\n
 * * If the result doesn't fit in the range of [Int] type, it is coerced into that range:\n
 * * - [Int.MIN_VALUE] is returned if it's less than `Int.MIN_VALUE`,\n
 * * - [Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n
 * * An infinite duration value is converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its sign.\n
 * * public fun toInt(unit: DurationUnit): Int =\n
 * toLong(unit).coerceIn(Int.MIN_VALUE.toInt(), Int.MAX_VALUE.toInt())\n
 * /** The value of this duration expressed as a [Double] number of days.\n
 * * @ExperimentalTime\n
 * * @Deprecated("Use inWholeDays property instead or convert toDouble(DAYS) if a double value is required.", ReplaceWith("toDouble(DurationUnit.DAYS)"))\n
 * * public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n
 * * /** The value of this duration expressed as a [Double] number of hours. *\n
 * * @ExperimentalTime\n
 * * @Deprecated("Use inWholeHours property instead or convert toDouble(HOURS) if a double value is required.", ReplaceWith("toDouble(DurationUnit.HOURS)"))\n
 * * public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n
 * * /** The value of this duration expressed as a [Double] number of minutes. *\n
 * * @ExperimentalTime\n
 * * @Deprecated("Use inWholeMinutes property instead or convert toDouble(MINUTES) if a double value is required.", ReplaceWith("toDouble(DurationUnit.MINUTES)"))\n
 * * public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\n
 * * /** The value of this duration expressed as a [Double] number of seconds. *\n
 * * @ExperimentalTime\n
 * * @Deprecated("Use inWholeSeconds property instead or convert toDouble(SECONDS) if a double value is required.", ReplaceWith("toDouble(DurationUnit.SECONDS)"))\n
 * * public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\n
 * * /** The value of this duration expressed as a [Double] number of milliseconds. *\n
 * * @ExperimentalTime\n
 * * @Deprecated("Use inWholeMilliseconds property instead or convert toDouble(MILLISECONDS) if a double value is required.", ReplaceWith("toDouble(DurationUnit.MILLISECONDS)"))\n
 * * public val inMilliseconds: Double get() =

```

```

toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. */\n @ExperimentalTime\n @Deprecated("Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required."),
ReplaceWith("toDouble(DurationUnit.MICROSECONDS)")\n public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n /** The value of this duration expressed as a [Double] number of
nanoseconds. */\n @ExperimentalTime\n @Deprecated("Use inWholeNanoseconds property instead or convert
toDouble(NANOSECONDS) if a double value is required."),
ReplaceWith("toDouble(DurationUnit.NANOSECONDS)")\n public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n /**\n * The value of this duration expressed as a [Long]
number of days.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n /**\n * The value of this duration expressed as a [Long] number of hours.\n
*\n * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n */\n public val inWholeHours: Long\n get() = toLong(DurationUnit.HOURS)\n\n /**\n *
The value of this duration expressed as a [Long] number of minutes.\n * An infinite duration value is
converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeMinutes: Long\n get() = toLong(DurationUnit.MINUTES)\n\n /**\n * The value of this duration
expressed as a [Long] number of seconds.\n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeSeconds:
Long\n get() = toLong(DurationUnit.SECONDS)\n\n /**\n * The value of this duration expressed as a
[Long] number of milliseconds.\n * An infinite duration value is converted either to [Long.MAX_VALUE]
or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeMilliseconds: Long\n get() {\n
return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n } \n\n /**\n *
The value of this duration expressed as a [Long] number of microseconds.\n * If the result doesn't fit in the
range of [Long] type, it is coerced into that range:\n * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`. \n * \n
* An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n */\n public val inWholeMicroseconds: Long\n get() =
toLong(DurationUnit.MICROSECONDS)\n\n /**\n * The value of this duration expressed as a [Long] number
of nanoseconds.\n * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n
* - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if
it's greater than `Long.MAX_VALUE`. \n * \n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeNanoseconds:
Long\n get() {\n val value = value\n return when {\n isInNanos() -> value\n
value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n value <
Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n else -> millisToNanos(value)\n
}\n }\n\n // shortcuts\n\n /**\n * Returns the value of this duration expressed as a [Long] number of
nanoseconds.\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the
conversion [Double.toLong] for details.\n * The range of durations that can be expressed as a `Long`
number of nanoseconds is approximately \u00b1292 years.\n */\n @ExperimentalTime\n @Deprecated("Use
inWholeNanoseconds property instead.", ReplaceWith("this.inWholeNanoseconds"))\n public fun
toLongNanoseconds(): Long = inWholeNanoseconds\n\n /**\n * Returns the value of this duration expressed as
a [Long] number of milliseconds.\n * The value is coerced to the range of [Long] type, if it doesn't fit in
that range, see the conversion [Double.toLong] for details.\n * The range of durations that can be expressed
as a `Long` number of milliseconds is approximately \u00b1292 million years.\n */\n @ExperimentalTime\n
@Deprecated("Use inWholeMilliseconds property instead.", ReplaceWith("this.inWholeMilliseconds"))\n
public fun toLongMilliseconds(): Long = inWholeMilliseconds\n\n /**\n * Returns a string representation of
this duration value\n * expressed as a combination of numeric components, each in its own unit.\n * Each

```



```

*/\n public fun toIsoString(): String = buildString {\n if (isNegative()) append('-')\n append('\PT')\n this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n @Suppress("NAME_SHADOWING")\n var hours = hours\n if (isInfinite()) {\n // use large\n enough value instead of Long.MAX_VALUE\n hours = 9_999_999_999_999\n }\n val\n hasHours = hours != 0L\n val hasSeconds = seconds != 0 || nanoseconds != 0\n val hasMinutes =\n minutes != 0 || (hasSeconds && hasHours)\n if (hasHours) {\n append(hours).append('H')\n }\n if (hasMinutes) {\n append(minutes).append('M')\n }\n if (hasSeconds ||\n (!hasHours && !hasMinutes)) {\n appendFractional(seconds, nanoseconds, 9, 'S', isoZeroes = true)\n }\n }\n }\n }\n\n// constructing from number of units\n// extension functions\n\n/** Returns a [Duration]\n equal to this [Int] number of the specified [unit].\n\n*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun Int.toDuration(unit:\n DurationUnit): Duration {\n return if (unit <= DurationUnit.SECONDS) {\n durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))\n } else {\n toLong().toDuration(unit)\n }\n\n}\n\n/** Returns a [Duration] equal to this [Long] number of the specified [unit].\n\n*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun Long.toDuration(unit:\n DurationUnit): Duration {\n val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,\n DurationUnit.NANOSECONDS, unit)\n if (this in -maxNsInUnit..maxNsInUnit) {\n return\n durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))\n } else {\n val\n millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)\n return\n durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n }\n\n}\n\n/**\n * Returns a [Duration] equal\n to this [Double] number of the specified [unit].\n * Depending on its magnitude, the value is rounded to an\n integer number of nanoseconds or milliseconds.\n * @throws IllegalArgumentException if this `Double` value is\n `NaN`.\n\n*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic fun\n Double.toDuration(unit: DurationUnit): Duration {\n val valueInNs = convertDurationUnit(this, unit,\n DurationUnit.NANOSECONDS)\n require(!valueInNs.isNaN()) { "Duration value cannot be NaN." }\n val\n nanos = valueInNs.roundToLong()\n return if (nanos in -MAX_NANOS..MAX_NANOS) {\n durationOfNanos(nanos)\n } else {\n val millis = convertDurationUnit(this, unit,\n DurationUnit.MILLISECONDS).roundToLong()\n durationOfMillisNormalized(millis)\n }\n }\n\n}\n\n//\n constructing from number of units\n// deprecated extension properties\n\n/** Returns a [Duration] equal to this [Int]\n number of nanoseconds.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.nanoseconds'\n extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",\n "\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val\n Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this\n [Long] number of nanoseconds.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use\n 'Long.nanoseconds' extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",\n "\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val\n Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this\n [Double] number of nanoseconds.\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.nanoseconds' extension property\n from Duration.Companion instead.", ReplaceWith("this.nanoseconds",\n "\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val\n Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to\n this [Int] number of microseconds.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use\n 'Int.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",\n "\kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val\n Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this\n [Long] number of microseconds.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use\n 'Long.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",

```

```

\"kotlin.time.Duration.Companion.microseconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to
this [Double] number of microseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Double.microseconds' extension
property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\"),
\"kotlin.time.Duration.Companion.microseconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to
this [Int] number of milliseconds. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use
'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\"),
\"kotlin.time.Duration.Companion.milliseconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Long] number of milliseconds. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use
'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\"),
\"kotlin.time.Duration.Companion.milliseconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Double] number of milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Double.milliseconds' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\"),
\"kotlin.time.Duration.Companion.milliseconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Int] number of seconds. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Int.seconds'
extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\"),
\"kotlin.time.Duration.Companion.seconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Long] number of
seconds. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Long.seconds' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.seconds\"),
\"kotlin.time.Duration.Companion.seconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of seconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Double.seconds' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.seconds\"),
\"kotlin.time.Duration.Companion.seconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Int]
number of minutes. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Int.minutes' extension
property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\"),
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Long] number of
minutes. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Long.minutes' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.minutes\"),
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of minutes.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Double.minutes' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.minutes\"),
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Int]
number of hours. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Int.hours' extension
property from Duration.Companion instead.\", ReplaceWith(\"this.hours\"),

```

```

\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of
hours. *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.hours' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.hours\"),
\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Double]
number of hours.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.hours' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.hours\"),
\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of
days. *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\"),
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\"),
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double] number
of days.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\"),
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified
[duration] value multiplied by this number.
*\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/** Returns a duration whose
value is the specified [duration] value multiplied by this number.\n *\n * The operation may involve rounding when
the result cannot be represented exactly with a [Double] number.\n *\n * @throws IllegalArgumentException if the
operation results in a `NaN` value.\n
*\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n var length = value.length\n if (length == 0) throw
IllegalArgumentException(\"The string is empty\")\n var index = 0\n var result = Duration.ZERO\n val
infinityString = \"Infinity\"\n when (value[index]) {\n '+', '-' -> index++\n }\n val hasSign = index > 0\n val
isNegative = hasSign && value.startsWith('-')\n when {\n length <= index ->\n throw
IllegalArgumentException(\"No components\")\n value[index] == 'P' -> {\n if (++index == length) throw
IllegalArgumentException()\n val nonDigitSymbols = \"+.\\\" var isTimeComponent = false\n var prevUnit: DurationUnit? = null\n while (index < length) {\n if (value[index] == 'T') {\n if (isTimeComponent || ++index == length) throw
IllegalArgumentException()\n isTimeComponent =
true\n continue\n }\n val component = value.substringWhile(index) { it in '0'..'9' || it in
nonDigitSymbols }\n if (component.isEmpty()) throw IllegalArgumentException()\n index +=
component.length\n val unitChar = value.getOrElse(index) { throw
IllegalArgumentException(\"Missing unit for value $component\") }\n index++\n val unit = durationUnitByIsoChar(unitChar,
isTimeComponent)\n if (prevUnit != null && prevUnit <= unit) throw
IllegalArgumentException(\"Unexpected order of duration components\")\n prevUnit = unit\n val
dotIndex = component.indexOf('.')\n if (unit == DurationUnit.SECONDS && dotIndex > 0) {\n val whole = component.substring(0, dotIndex)\n result +=

```

```

parseOverLongIsoComponent(whole).toDuration(unit)\n result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n } else {\n result +=
parseOverLongIsoComponent(component).toDuration(unit)\n }\n }\n } strictIso ->\n throw IllegalArgumentException()\n value.regionMatches(index, infinityString, 0, length = maxOf(length -
index, infinityString.length), ignoreCase = true) -> {\n result = Duration.INFINITE\n }\n else -> {\n
// parse default string format\n var prevUnit: DurationUnit? = null\n var afterFirst = false\n
var allowSpaces = !hasSign\n if (hasSign && value[index] == '(' && value.last() == ')') {\n
allowSpaces = true\n if (++index == --length) throw IllegalArgumentException("No components")\n
}\n while (index < length) {\n if (afterFirst && allowSpaces) {\n index =
value.skipWhile(index) { it == ' ' }\n }\n afterFirst = true\n val component =
value.substringWhile(index) { it in '0'..'9' || it == '.' }\n if (component.isEmpty()) throw
IllegalArgumentException()\n index += component.length\n val unitName =
value.substringWhile(index) { it in 'a'..'z' }\n index += unitName.length\n val unit =
durationUnitByShortName(unitName)\n if (prevUnit != null && prevUnit <= unit) throw
IllegalArgumentException("Unexpected order of duration components")\n prevUnit = unit\n val
dotIndex = component.indexOf('.')\n if (dotIndex > 0) {\n val whole = component.substring(0,
dotIndex)\n result += whole.toLong().toDuration(unit)\n result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n if (index < length) throw
IllegalArgumentException("Fractional component must be last")\n } else {\n result +=
component.toLong().toDuration(unit)\n }\n }\n }\n return if (isNegative) -result else
result\n}\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n val length = value.length\n var
startIndex = 0\n if (length > 0 && value[0] in "+-") startIndex++\n if ((length - startIndex) > 16 &&
(startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n // all chars are digits, but more than
ceiling(log10(MAX_MILLIS / 1000)) of them\n return if (value[0] == '-') Long.MIN_VALUE else
Long.MAX_VALUE\n }\n // TODO: replace with just toLong after min JDK becomes 8\n return if
(value.startsWith("+")) value.drop(1).toLong() else value.toLong()\n}\n\nprivate inline fun
String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean): String =\n substring(startIndex,
skipWhile(startIndex, predicate))\n\nprivate inline fun String.skipWhile(startIndex: Int, predicate: (Char) ->
Boolean): Int {\n var i = startIndex\n while (i < length && predicate(this[i])) i++\n return i\n}\n\n//
The ranges are chosen so that they are:\n// - symmetric relative to zero: this greatly simplifies operations with sign,
e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent: the first value that doesn't fit in nanos range, can be
exactly represented in millis.\n\ninternal const val NANOS_IN_MILLIS = 1_000_000\n// maximum number
duration can store in nanosecond range\n\ninternal const val MAX_NANOS = Long.MAX_VALUE / 2 /
NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in ...999_999\n// maximum number duration can store in
millisecond range, also encodes an infinite value\n\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n//
MAX_NANOS expressed in milliseconds\n\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS /
NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\n\nprivate
fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun
durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\n\nprivate fun durationOfMillis(normalMillis:
Long) = Duration((normalMillis shl 1) + 1)\n\nprivate fun durationOf(normalValue: Long, unitDiscriminator: Int) =
Duration((normalValue shl 1) + unitDiscriminator)\n\nprivate fun durationOfNanosNormalized(nanos: Long) =\n if
(nanos in -MAX_NANOS..MAX_NANOS) {\n durationOfNanos(nanos)\n } else {\n
durationOfMillis(nanosToMillis(nanos))\n }\n\nprivate fun durationOfMillisNormalized(millis: Long) =\n if
(millis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
durationOfNanos(millisToNanos(millis))\n } else {\n durationOfMillis(millis.coerceIn(-MAX_MILLIS,
MAX_MILLIS))\n }\n\ninternal expect val durationAssertionsEnabled: Boolean\n\ninternal expect fun
formatToExactDecimals(value: Double, decimals: Int): String\n\ninternal expect fun formatUpToDecimals(value:
Double, decimals: Int): String", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language

```



```

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmName("UnsignedKt")\npackage
kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n@PublishedApi\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n@PublishedApi\ninternal fun
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava
Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n val dividend =
v1.toLong()\n val divisor = v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63\n return if (v1 < v2)
ULong(0) else ULong(1)\n }\n // Optimization - use signed division if both dividend and divisor < 2^63\n if
(dividend >= 0) {\n return ULong(dividend / divisor)\n }\n // Otherwise, approximate the quotient, check,
and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient *
divisor\n return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n}\n\n@PublishedApi\ninternal
fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n val dividend = v1.toLong()\n val divisor =
v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63\n return if (v1 < v2) {\n v1 // dividend <
divisor\n } else {\n v1 - v2 // dividend >= divisor\n }\n }\n // Optimization - use signed
modulus if both dividend and divisor < 2^63\n if (dividend >= 0) {\n return ULong(dividend % divisor)\n }\n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1)
/ divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >=
ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n
v.isNaN() -> 0u\n v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n v >=
UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n v <= Int.MAX_VALUE -> v.toInt().toUInt()\n else -
> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v <
UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n v < Long.MAX_VALUE ->
v.toLong().toULong()\n\n // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
if (v >= 0) return v.toString(base)\n\n var quotient = ((v ushr 1) / base) shl 1\n var rem = v - quotient * base\n
if (rem >= base) {\n rem -= base\n quotient += 1\n }\n return quotient.toString(base) +
rem.toString(base)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\ninternal class
IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n override
fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of
this iterable if it is known, or `null` otherwise.\n */\n@PublishedApi\ninternal fun <T>

```

```

Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of
this iterable if it is known, or the specified [default] value otherwise.\n *\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n/**\n *
Returns a single list of all elements from all collections in the given collection.\n *\n@sample
samples.collections.Iterables.Operations.flattenIterable\n *\npublic fun <T> Iterable<Iterable<T>>.flatten():
List<T> {\n val result = ArrayList<T>()\n for (element in this) {\n result.addAll(element)\n }\n return
result\n}\n\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this
collection,\n * *second* list is built from the second values of each pair from this collection.\n *\n@sample
samples.collections.Iterables.Operations.unzipIterable\n *\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n val expectedSize = collectionSizeOrDefault(10)\n val listT =
ArrayList<T>(expectedSize)\n val listR = ArrayList<R>(expectedSize)\n for (pair in this) {\n
listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n"/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@\n@file:kotlin.jvm.JvmMultifileClass\n@\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\n\n\n/**\n * Given an [iterator] function constructs a [Sequence]
that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the
sequence is potentially infinite.\n *\n*\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n
*\n@\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>):
Sequence<T> = object : Sequence<T> {\n override fun iterator(): Iterator<T> = iterator()\n}\n\n\n/**\n * Creates a
sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n *\n*\n *
@sample samples.collections.Sequences.Building.sequenceFromIterator\n *\npublic fun <T>
Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n\n/**\n * Creates a sequence that
returns the specified values.\n *\n*\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n
*\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else
elements.asSequence()\n\n\n/**\n * Returns an empty sequence.\n *\npublic fun <T> emptySequence():
Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>,\nDropTakeSequence<Nothing> {\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n override fun
drop(n: Int) = EmptySequence\n override fun take(n: Int) = EmptySequence\n}\n\n\n/**\n * Returns this sequence if
it's not `null` and the empty sequence otherwise.\n *\n@sample
samples.collections.Sequences.Usage.sequenceOrEmpty\n
*\n@\n@SinceKotlin("1.3")\n@\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?. emptySequence()\n\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n
\n\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n *\n@\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n val iterator =
this@ifEmpty.iterator()\n if (iterator.hasNext()) {\n yieldAll(iterator)\n } else {\n
yieldAll(defaultValue())\n }\n}\n\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n *\n*\n * The operation is _intermediate_ and _stateless_.\n *\n*\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n *\n*\n * The operation is _intermediate_ and _stateless_.\n *\n*\n *
@sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n
*\n@\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n if (this is TransformingSequence<*, *>) {\n return (this as TransformingSequence<*,
T>).flatten(iterator)\n }\n return FlatteningSequence(this, { it }, iterator)\n}\n\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the

```

second values of each pair from this sequence.

`* The operation is _terminal_.`

`@sample`

```

samples.collections.Sequences.Transformations.unzip
public fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {
 val listT = ArrayList<T>()
 val listR = ArrayList<R>()
 for (pair in this) {
 listT.add(pair.first)
 listR.add(pair.second)
 }
 return listT to listR
}

```

`* Returns a sequence that yields elements of this sequence randomly shuffled.`

`* Note that every iteration of the sequence returns elements in a different order.`

`* The operation is _intermediate_ and _stateful_.`

`* Since Kotlin("1.4")`

```

public fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)

```

`* Returns a sequence that yields elements of this sequence randomly shuffled`

`* using the specified [random] instance as the source of randomness.`

`* Note that every iteration of the sequence returns elements in a different order.`

`* The operation is _intermediate_ and _stateful_.`

`* Since Kotlin("1.4")`

```

public fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {
 val buffer = toMutableList()
 while (buffer.isNotEmpty()) {
 val j = random.nextInt(buffer.size)
 val last = buffer.removeLast()
 val value = if (j < buffer.size) buffer.set(j, last) else last
 yield(value)
 }
}

```

`* A sequence that returns the values from the underlying [sequence] that either match or do not match`

`* the specified [predicate].`

`* @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise, values for which the predicate returns `false` are returned`

```

internal class FilteringSequence<T> {
 private val sequence: Sequence<T>
 private val sendWhen: Boolean = true
 private val predicate: (T) -> Boolean

 Sequence<T> {
 override fun iterator(): Iterator<T> = object : Iterator<T> {
 val iterator = sequence.iterator()
 var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue
 var nextItem: T? = null

 private fun calcNext() {
 while (iterator.hasNext()) {
 val item = iterator.next()
 if (predicate(item) == sendWhen) {
 nextItem = item
 nextState = 1
 }
 }
 nextState = 0
 }

 override fun next(): T {
 if (nextState == -1) calcNext()
 if (nextState == 0) throw NoSuchElementException()
 val result = nextItem
 nextItem = null
 nextState = -1
 @Suppress("UNCHECKED_CAST")
 return result as T
 }

 override fun hasNext(): Boolean {
 if (nextState == -1) calcNext()
 return nextState == 1
 }
 }
 }
}

```

`* A sequence which returns the results of applying the given [transformer] function to the values`

`* in the underlying [sequence].`

```

internal class TransformingSequence<T, R> {
 constructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) :
 Sequence<R> {
 override fun iterator(): Iterator<R> = object : Iterator<R> {
 val iterator = sequence.iterator()
 override fun next(): R {
 return transformer(iterator.next())
 }
 }

 override fun hasNext(): Boolean {
 return iterator.hasNext()
 }

 internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {
 return FlatteningSequence<T, R, E>(sequence, transformer, iterator)
 }
 }
}

```

`* A sequence which returns the results of applying the given [transformer] function to the values`

`* in the underlying [sequence], where the transformer function takes the index of the value in the underlying`

`* sequence along with the value itself.`

```

internal class TransformingIndexedSequence<T, R> {
 constructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) :
 Sequence<R> {
 override fun iterator(): Iterator<R> = object : Iterator<R> {
 val iterator = sequence.iterator()
 var index = 0
 override fun next(): R {
 return transformer(checkIndexOverflow(index++), iterator.next())
 }
 }

 override fun hasNext(): Boolean {
 return iterator.hasNext()
 }
 }
}

```

`* A sequence which combines values from the underlying [sequence] with their indices and returns them as`

`* [IndexedValue] objects.`

```

internal class IndexingSequence<T> {
 constructor(private val sequence: Sequence<T>) :
 Sequence<IndexedValue<T>> {
 override fun iterator(): Iterator<IndexedValue<T>> = object :
 Iterator<IndexedValue<T>> {
 val iterator = sequence.iterator()
 var index = 0
 override fun next(): IndexedValue<T> {
 return IndexedValue(checkIndexOverflow(index++), iterator.next())
 }
 }

 override fun hasNext(): Boolean {
 return iterator.hasNext()
 }
 }
}

```

`* A sequence which takes the values from two parallel underlying sequences, passes them to the given`

`* [transform] function and returns the values returned by that function. The sequence stops returning`

`* values as soon as one of the underlying sequences stops returning values.`

```

internal class MergingSequence<T1, T2, V> {
 constructor(

```

```

private val sequence1: Sequence<T1>,\n private val sequence2: Sequence<T2>,\n private val transform: (T1,\n T2) -> V\n) : Sequence<V> {\n override fun iterator(): Iterator<V> = object : Iterator<V> {\n val iterator1 =\n sequence1.iterator()\n val iterator2 = sequence2.iterator()\n override fun next(): V {\n return\n transform(iterator1.next(), iterator2.next())\n }\n\n override fun hasNext(): Boolean {\n return\n iterator1.hasNext() && iterator2.hasNext()\n }\n }\n}\n\ninternal class FlatteningSequence<T, R,\n E>\nconstructor(\n private val sequence: Sequence<T>,\n private val transformer: (T) -> R,\n private val\n iterator: (R) -> Iterator<E>)\n) : Sequence<E> {\n override fun iterator(): Iterator<E> = object : Iterator<E> {\n\n val iterator = sequence.iterator()\n var itemIterator: Iterator<E>? = null\n\n override fun next(): E {\n\n if (!ensureItemIterator())\n throw NoSuchElementException()\n return itemIterator!!.next()\n }\n\n override fun hasNext(): Boolean {\n return ensureItemIterator()\n }\n\n private fun\n ensureItemIterator(): Boolean {\n if (itemIterator?.hasNext() == false)\n itemIterator = null\n\n while (itemIterator == null) {\n if (!iterator.hasNext())\n return false\n } else {\n\n val element = iterator.next()\n val nextItemIterator = iterator(transformer(element))\n\n if (nextItemIterator.hasNext()) {\n itemIterator = nextItemIterator\n return true\n }\n }\n }\n\n return true\n }\n }\n}\n\ninternal fun <T, C, R> flatMapIndexed(source:\n Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n sequence {\n var\n index = 0\n for (element in source) {\n val result = transform(checkIndexOverflow(index++), element)\n yieldAll(iterator(result))\n }\n }\n\n/**\n * A sequence that supports drop(n) and take(n) operations\n *\n */\ninternal interface DropTakeSequence<T> : Sequence<T> {\n fun drop(n: Int): Sequence<T>\n fun take(n:\n Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying [sequence]\n * and\n stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n *\n */\ninternal class SubSequence<T>(\n private val sequence: Sequence<T>,\n private val startIndex: Int,\n private val endIndex: Int)\n) : Sequence<T>,\n DropTakeSequence<T> {\n\n init {\n require(startIndex >= 0) { \"startIndex should be non-negative, but is\n $startIndex\" }\n require(endIndex >= 0) { \"endIndex should be non-negative, but is $endIndex\" }\n\n require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\" }\n }\n\n private val count: Int get() = endIndex - startIndex\n\n override fun drop(n: Int): Sequence<T> = if\n (>= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\n\n override fun take(n: Int):\n Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\n\n override fun\n iterator() = object : Iterator<T> {\n\n val iterator = sequence.iterator()\n var position = 0\n\n //\n Shouldn't be called from constructor to avoid premature iteration\n private fun drop() {\n while (position\n < startIndex && iterator.hasNext()) {\n iterator.next()\n position++\n }\n }\n\n override fun hasNext(): Boolean {\n drop()\n return (position < endIndex) && iterator.hasNext()\n }\n\n override fun next(): T {\n drop()\n if (position >= endIndex)\n throw\n NoSuchElementException()\n position++\n return iterator.next()\n }\n }\n}\n\n/**\n * A\n sequence that returns at most [count] values from the underlying [sequence], and stops returning values\n * as soon\n as that count is reached.\n *\n */\ninternal class TakeSequence<T>(\n private val sequence: Sequence<T>,\n private\n val count: Int)\n) : Sequence<T>, DropTakeSequence<T> {\n\n init {\n require(count >= 0) { \"count must be\n non-negative, but was $count.\" }\n }\n\n override fun drop(n: Int): Sequence<T> = if (n >= count)\n emptySequence() else SubSequence(sequence, n, count)\n\n override fun take(n: Int): Sequence<T> = if (n >=\n count) this else TakeSequence(sequence, n)\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n\n var left = count\n val iterator = sequence.iterator()\n\n override fun next(): T {\n if (left == 0)\n throw\n NoSuchElementException()\n left--\n return iterator.next()\n }\n\n override fun\n hasNext(): Boolean {\n return left > 0 && iterator.hasNext()\n }\n }\n}\n\n/**\n * A sequence that\n returns values from the underlying [sequence] while the [predicate] function returns `true`, and stops returning\n values\n once the function returns `false` for the next element.\n *\n */\ninternal class\n TakeWhileSequence<T>\nconstructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->\n Boolean)\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n\n val iterator =\n sequence.iterator()\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var nextItem: T?\n
```

```

= null\n\n private fun calcNext() {\n if (iterator.hasNext()) {\n val item = iterator.next()\n if (predicate(item)) {\n nextState = 1\n nextItem = item\n return\n }\n nextState = 0\n }\n override fun next(): T {\n if (nextState == -1)\n calcNext() // will change nextState\n if (nextState == 0)\n throw NoSuchElementException()\n @Suppress("UNCHECKED_CAST")\n val result = nextItem as T\n // Clean next to avoid keeping\n reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n }\n override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext() // will change nextState\n return nextState == 1\n }\n }\n}\n\n/**\n * A sequence that skips the specified number of values from the\n underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n private val\n sequence: Sequence<T>,\n private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n init {\n require(count >= 0) { \"count must be non-negative, but was $count.\" }\n }\n override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else\n SubSequence(sequence, count, n1) }\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val\n iterator = sequence.iterator()\n var left = count\n // Shouldn't be called from constructor to avoid\n premature iteration\n private fun drop() {\n while (left > 0 && iterator.hasNext()) {\n iterator.next()\n left--\n }\n }\n override fun next(): T {\n drop()\n return\n iterator.next()\n }\n override fun hasNext(): Boolean {\n drop()\n return iterator.hasNext()\n }\n }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while the given\n [predicate] returns `true` and returns\n * all values after that.\n */\ninternal class\nDropWhileSequence<T>(\n constructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->\n Boolean\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =\n sequence.iterator()\n var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n var nextItem: T? = null\n private fun drop() {\n while (iterator.hasNext()) {\n val item =\n iterator.next()\n if (!predicate(item)) {\n nextItem = item\n dropState = 1\n }\n return\n }\n dropState = 0\n }\n override fun next(): T {\n if\n (dropState == -1)\n drop()\n if (dropState == 1) {\n @Suppress("UNCHECKED_CAST")\n val result = nextItem as T\n nextItem = null\n dropState = 0\n return result\n }\n return iterator.next()\n }\n override fun\n hasNext(): Boolean {\n if (dropState == -1)\n drop()\n return dropState == 1 ||\n iterator.hasNext()\n }\n }\n}\n\ninternal class DistinctSequence<T, K>(\n private val source: Sequence<T>,\n private val keySelector: (T) -> K\n) : Sequence<T> {\n override fun iterator(): Iterator<T> =\n DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(\n private val source:\n Iterator<T>,\n private val keySelector: (T) -> K\n) : AbstractIterator<T>() {\n private val observed =\n HashSet<K>()\n override fun computeNext() {\n while (source.hasNext()) {\n val next =\n source.next()\n val key = keySelector(next)\n if (observed.add(key)) {\n setNext(next)\n return\n }\n done()\n }\n }\n}\n\nprivate class GeneratorSequence<T : Any>(\n private val\n getInitialValue: () -> T?,\n private val getNextValue: (T) -> T?\n) : Sequence<T> {\n override fun iterator():\n Iterator<T> = object : Iterator<T> {\n var nextItem: T? = null\n var nextState: Int = -2 // -2 for initial\n unknown, -1 for next unknown, 0 for done, 1 for continue\n private fun calcNext() {\n nextItem = if\n (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\n nextState = if (nextItem == null) 0 else\n 1\n }\n override fun next(): T {\n if (nextState < 0)\n calcNext()\n if (nextState\n == 0)\n throw NoSuchElementException()\n val result = nextItem as T\n // Do not clean\n nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n nextState\n = -1\n return result\n }\n override fun\n hasNext(): Boolean {\n if (nextState < 0)\n calcNext()\n return nextState == 1\n }\n }\n}\n\n/**\n * Returns a wrapper sequence that provides\n values of this sequence, but ensures it can be iterated only one time.\n */\n * The operation is _intermediate_ and\n _stateless_.\n */\n * [IllegalStateException] is thrown on iterating the returned sequence for the second time and the

```

```

following times.\n * \n\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n // as? does not work
in js\n //return this as? ConstrainedOnceSequence<T>?: ConstrainedOnceSequence(this)\n return if (this is
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n/**\n * Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`.\n * \n * The
returned sequence is constrained to be iterated only once.\n * \n * @see constrainOnce\n * @see
kotlin.sequences.sequence\n * \n * @sample samples.collections.Sequences.Building.generateSequence\n * \n\npublic
fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n return
GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by
the starting value [seed] and the function [nextFunction],\n * which is invoked to calculate the next value based on
the previous one on each iteration.\n * \n * The sequence produces values until it encounters first `null` value.\n *
If [seed] is `null`, an empty sequence is produced.\n * \n * The sequence can be iterated multiple times, each time
starting with [seed].\n * \n * @see kotlin.sequences.sequence\n * \n * @sample
samples.collections.Sequences.Building.generateSequenceWithSeed\n
*\n\n@kotlin.internal.LowPriorityInOverloadResolution\n\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n if (seed == null)\n EmptySequence\n else\n
GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction],
which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next
value based on the previous one on each iteration.\n * \n * The sequence produces values until it encounters first
`null` value.\n * \n * If [seedFunction] returns `null`, an empty sequence is produced.\n * \n * The sequence can be
iterated multiple times.\n * \n * @see kotlin.sequences.sequence\n * \n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed\n * \n\npublic fun <T : Any>
generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n
GeneratorSequence(seedFunction, nextFunction)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n * \n\n@kotlin.internal.InlineOnly\n\npublic
inline fun require(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n require(value) {\n
"Failed requirement." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n * \n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n returns() implies value\n }\n if (!value) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalArgumentException] if the
[value] is null. Otherwise returns the not null value.\n * \n * \n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T : Any>
requireNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return
requireNotNull(value) {"Required value was null." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n * \n *
@sample samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline
fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value
!= null)\n }\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an
[IllegalStateException] if the [value] is false.\n * \n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline fun
check(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n check(value) {"Check failed."
}\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n * \n\n@kotlin.internal.InlineOnly\n\npublic
inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n

```

```

if (!value) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n}\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return checkNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n }\n if (value == null) {\n val message = lazyMessage()\n throw\n IllegalStateException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw\n IllegalStateException(message.toString())\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the\n * GenerateStandardLib.kt\n * See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt(index: Int): Short {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index: Int): Double {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char

```

```

{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size}")
}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList():
List<T> {\n return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n
return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n return
this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n return
this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n return
this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n return
this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\npublic actual fun CharArray.asList(): List<Char> {\n return object : AbstractList<Char>(), RandomAccess {\n
 override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n
 override fun contains(element: Char): Boolean = this@asList.contains(element)\n override fun get(index: Int):
Char {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n
 override fun indexOf(element: Char): Int {\n @Suppress("USELESS_CAST")\n if ((element as
Any?) !is Char) return -1\n return this@asList.indexOf(element)\n }\n override fun
lastIndexOf(element: Char): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
Char) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns `true` if the
two specified arrays are *deeply* equal to one another.\n * i.e. contain the same number of the same elements in the
same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of
arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are
compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is
equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T>
Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n return
this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another.\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are
also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are
also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n *
The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out
T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n return this.contentDeepHashCode()\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*/\n\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>?.contentDeepHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the

```



contents of this array as if it is a [List].\n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `\"[...]\"` to prevent recursion.\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n

```
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n return this.contentDeepToString()\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n
```

```
*\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out T>?.contentDeepToString(): String {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
```

```

*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
DoubleArray.contentEquals(other: DoubleArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
CharArray.contentEquals(other: CharArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>?.contentEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other:
ByteArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ShortArray?.contentEquals(other:
ShortArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun IntArray?.contentEquals(other:
IntArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun LongArray?.contentEquals(other:
LongArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

```

```

*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun DoubleArray?.contentEquals(other:
DoubleArray?): Boolean {\/n definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another,\/n * i.e. contain the same number of the same elements in the same order.\/n *
* The elements are compared for equality with the [equals][Any.equals] function.\/n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun BooleanArray?.contentEquals(other:
BooleanArray?): Boolean {\/n definedExternally\/n}\/n\/n**\/n * Returns `true` if the two specified arrays are
structurally equal to one another,\/n * i.e. contain the same number of the same elements in the same order.\/n *
* The elements are compared for equality with the [equals][Any.equals] function.\/n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n
*\/n@SinceKotlin("1.4")\/n@library("arrayEquals")\/npublic actual infix fun CharArray?.contentEquals(other:
CharArray?): Boolean {\/n definedExternally\/n}\/n\/n**\/n * Returns a hash code based on the contents of this array
as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun <T>
Array<out T>.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based
on the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
ByteArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
ShortArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
IntArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
LongArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
FloatArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
DoubleArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based
on the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
BooleanArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based
on the contents of this array as if it is [List].\/n *\/n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\/n@SinceKotlin("1.1")\/n@DeprecatedSinceKotlin(hiddenSince = "1.4")\/npublic actual fun
CharArray.contentHashCode(): Int {\/n return this.contentHashCode()\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@SinceKotlin("1.4")\/n@library("arrayHashCode")\/npublic actual
fun <T> Array<out T>?.contentHashCode(): Int {\/n definedExternally\/n}\/n\/n**\/n * Returns a hash code based on
the contents of this array as if it is [List].\/n *\/n@SinceKotlin("1.4")\/n@library("arrayHashCode")\/npublic actual
fun ByteArray?.contentHashCode(): Int {\/n definedExternally\/n}\/n\/n**\/n * Returns a hash code based on the
contents of this array as if it is [List].\/n *\/n@SinceKotlin("1.4")\/n@library("arrayHashCode")\/npublic actual fun
ShortArray?.contentHashCode(): Int {\/n definedExternally\/n}\/n\/n**\/n * Returns a hash code based on the
contents of this array as if it is [List].\/n *\/n@SinceKotlin("1.4")\/n@library("arrayHashCode")\/npublic actual fun
IntArray?.contentHashCode(): Int {\/n definedExternally\/n}\/n\/n**\/n * Returns a hash code based on the contents
of this array as if it is [List].\/n *\/n@SinceKotlin("1.4")\/n@library("arrayHashCode")\/npublic actual fun

```

`LongArray?.contentHashCode(): Int` {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun

`FloatArray?.contentHashCode(): Int` {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun

`DoubleArray?.contentHashCode(): Int` {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun

`BooleanArray?.contentHashCode(): Int` {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^/\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun

`CharArray?.contentHashCode(): Int` {\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T> Array<out T>.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ByteArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ShortArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun IntArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun LongArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun FloatArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun DoubleArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun BooleanArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun CharArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentToString`\n \*^/\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun <T> Array<out T>?.contentToString():

```

String { \n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun ByteArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun ShortArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun IntArray?.contentToString(): String {\n
definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun LongArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun FloatArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun DoubleArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun BooleanArray?.contentToString():
String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@\n@SinceKotlin("1.4")\n@library("arrayToString")\n\npublic actual fun CharArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that
array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of
the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this
array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
[destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the
[destination] array.\n
*\n@\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\n\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset,
startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
*\n@\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")

```

```

_ARGUMENTS`)
public actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): ByteArray {
 arrayCopy(this.unsafeCast<Array<Byte>>(),
destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)
 return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): ShortArray {
 arrayCopy(this.unsafeCast<Array<Short>>(),
destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)
 return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): IntArray {
 arrayCopy(this.unsafeCast<Array<Int>>(),
destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)
 return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): LongArray {
 arrayCopy(this.unsafeCast<Array<Long>>(),
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
 return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this

```

array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Returns new array which is a copy of the original array. \n * \n * @sample

```

```

samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"ACTUAL_WITHOUT_EXPECT\\",
\\"NOTHING_TO_INLINE\\")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n return
this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual inline fun ByteArray.copyOfOf(): ByteArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual inline fun ShortArray.copyOfOf(): ShortArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual inline fun IntArray.copyOfOf(): IntArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual fun LongArray.copyOfOf(): LongArray {\n return withType(\\"LongArray\\",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual inline fun FloatArray.copyOfOf(): FloatArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic
actual inline fun DoubleArray.copyOfOf(): DoubleArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns
new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual fun BooleanArray.copyOfOf():
BooleanArray {\n return withType(\\"BooleanArray\\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual fun CharArray.copyOfOf(): CharArray {\n return withType(\\"CharArray\\",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual fun
ByteArray.copyOfOf(newSize: Int): ByteArray {\n require(newSize >= 0) { \\"Invalid new array size: $newSize.\\\"
}\n return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual fun
ShortArray.copyOfOf(newSize: Int): ShortArray {\n require(newSize >= 0) { \\"Invalid new
array size: $newSize.\\\" }\n return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a
copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with
zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual fun
IntArray.copyOfOf(newSize: Int): IntArray {\n require(newSize >= 0) { \\"Invalid new array size: $newSize.\\\" }\n
return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n@Suppress(\\"NOTHING_TO_INLINE\\")\npublic actual

```



```

fun LongArray.copyOf(newSize: Int): LongArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return withType("LongArray", arrayCopyResize(this, newSize, 0L))
}
/* Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
public actual fun
FloatArray.copyOf(newSize: Int): FloatArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return fillFrom(this, FloatArray(newSize))
}
/* Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
public actual fun
DoubleArray.copyOf(newSize: Int): DoubleArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return fillFrom(this, DoubleArray(newSize))
}
/* Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `false` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.
 * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
public actual fun
BooleanArray.copyOf(newSize: Int): BooleanArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return withType("BooleanArray", arrayCopyResize(this, newSize, false))
}
/* Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with null char ('\u0000') values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char ('\u0000') values.
 * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
public actual fun
CharArray.copyOf(newSize: Int): CharArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return withType("CharArray", fillFrom(this, CharArray(newSize)))
}
/* Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `null` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.
 * @sample
samples.collections.Arrays.CopyOfOperations.resizingCopyOf
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return arrayCopyResize(this, newSize, null)
}
/* Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
@Suppress("ACTUAL_WITHOUT_EXPECT")
public actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
 return this.asDynamic().slice(fromIndex, toIndex)
}
/* Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive) to copy.
 * @param toIndex the end of the range (exclusive) to copy.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
public actual fun
ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {

```

```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>"LongArray</code>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int):
FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the
end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>"BooleanArray</code>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int):
CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("<code>"CharArray</code>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
```

```

*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {\n return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator
fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short):
ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element:
Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return
plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then
the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements:
Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic
actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return

```

fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("ACTUAL\_WITHOUT\_EXPECT", "NOTHING\_TO\_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n return this.asDynamic().concat(elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing

all elements of the original array and then the given [element].\n

```

*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T>
Array<out T>.plusElement(element: T): Array<T> {\n return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@library("primitiveArraySort")\npublic actual fun
IntArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\npublic actual fun LongArray.sort(): Unit {\n
@Suppress("DEPRECATION")\n if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts
the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun ByteArray.sort(): Unit {\n definedExternally\n}\n\n/**\n
 * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun ShortArray.sort(): Unit {\n definedExternally\n}\n\n/**\n
 * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun DoubleArray.sort(): Unit {\n
definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@library("primitiveArraySort")\npublic actual fun
FloatArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@library("primitiveArraySort")\npublic actual fun
CharArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order
of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n *\npublic actual fun
<T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-
place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n * \n *@Deprecated("Use sortWith instead",
ReplaceWith("this.sortWith(Comparator(comparison))"))\n@DeprecatedSinceKotlin(warningSince =
"1.6")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1)
sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the
start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample

```

```

samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =

```

```

this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated("Use other
sorting functions from the Standard Library")\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) ->
Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified
by the given [comparison] function.\n */\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n
 asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n */\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n *
Sorts the array in-place according to the order specified by the given [comparison] function.\n
*/\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n
 asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n */\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n
 asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n */\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n
 asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n */\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
 asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if
(size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given
[comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex
the end of the range (exclusive) to sort, size of this array by default.\n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n return js("[]").slice.call(this)\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun
ShortArray.toTypedArray(): Array<Short> {\n return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray():
Array<Int> {\n return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive

```



```

array.\n *^/npublic actual fun FloatArray.toArray(): Array<Float> {\n return
js("[\n]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^/npublic actual fun DoubleArray.toArray(): Array<Double> {\n return
js("[\n]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^/npublic actual fun BooleanArray.toArray(): Array<Boolean> {\n return
js("[\n]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^/npublic actual fun CharArray.toArray(): Array<Char> {\n return Array(size) { index ->
this[index] }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result
of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do
not\n * compare as equal, the result of that comparison is returned.\n * \n * @sample
samples.comparisons.Comparisons.compareValuesByWithSelectors\n *^/npublic fun <T> compareValuesBy(a: T,
b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n require(selectors.size > 0)\n return
compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors:
Array<out (T) -> Comparable<*>?>): Int {\n for (fn in selectors) {\n val v1 = fn(a)\n val v2 = fn(b)\n val diff = compareValues(v1, v2)\n if (diff != 0) return diff\n }\n return 0\n}\n\n/**\n * Compares two
values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to
the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable]
instances is returned.\n * \n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) ->
Comparable<*>?): Int {\n return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values
using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the
given values [a] and [b] and return objects of type K which are then being\n * compared with the given
[comparator].\n * \n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in
K>, selector: (T) -> K): Int {\n return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without
type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })\n\n/**\n * Compares two values using the specified [comparator].\n\n
*/\n\n@Suppress("NOTHING_TO_INLINE")\npublic inline fun <T> compareValuesWith(a: T, b: T, comparator:
Comparator<T>): Int = comparator.compare(a, b)\n\n/**\n * Compares two nullable [Comparable] values. Null
is considered less than any value.\n * \n * @sample samples.comparisons.Comparisons.compareValues\n */\npublic
fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n if (a === b) return 0\n if (a == null) return -1\n
if (b == null) return 1\n @Suppress("UNCHECKED_CAST")\n return (a as
Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a
result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do
not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSelectors\n *^/npublic fun <T> compareBy(vararg selectors: (T)
-> Comparable<*>?): Comparator<T> {\n require(selectors.size > 0)\n return Comparator { a, b ->
compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n * Creates a comparator using the function to transform value
to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b ->
compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values

```

being compared and then applying the specified [comparator] to compare transformed values.

```

@sample
samples.comparisons.Comparisons.compareByWithComparator
*/\n@kotlin.internal.InlineOnly\npublic inline
fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n
Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator
using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n
Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n *
Creates a descending comparator using the [selector] function to transform values being compared and then
applying the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is
reversed by this wrapper.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n
Comparator { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It
uses the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n
Comparator { a, b -
>\n
val previousCompare = this@thenBy.compare(a, b)\n
if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, selector)\n
}\n\n/**\n * Creates a comparator comparing values after the primary
comparator defined them equal. It uses the [selector] function to transform values and then compares them with
the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n
Comparator { a, b ->\n
val previousCompare =
this@thenBy.compare(a, b)\n
if (previousCompare != 0) previousCompare else compareValuesBy(a, b,
comparator, selector)\n
}\n\n/**\n * Creates a descending comparator using the primary comparator and the
function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n
Comparator { a, b ->\n
val previousCompare = this@thenByDescending.compare(a, b)\n
if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n
}\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses the [selector]
function to transform values and then compares them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n
Comparator { a, b ->\n
val previousCompare = this@thenByDescending.compare(a,
b)\n
if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n
}\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n
*\n * @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n
Comparator { a, b ->\n
val previousCompare = this@thenComparator.compare(a, b)\n
if (previousCompare
!= 0) previousCompare else comparison(a, b)\n
}\n\n/**\n * Combines this comparator and the given [comparator]
such that the latter is applied only when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.then\n */\npublic infix fun <T> Comparator<T>.then(comparator:
Comparator<in T>): Comparator<T> =\n
Comparator { a, b ->\n
val previousCompare =
this@then.compare(a, b)\n
if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n
}\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only when the
former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n */\npublic

```

```

infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n
Comparator<T> { a, b ->\n val previousCompare = this@thenDescending.compare(a, b)\n if
(previousCompare != 0) previousCompare else comparator.compare(b, a)\n }\n\n// Not so useful without type
inference for receiver of expression\n/**\n * Extends the given [comparator] of non-nullable values to a comparator
of nullable values\n * considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when {\n a
=== b -> 0\n a == null -> -1\n b == null -> 1\n else -> comparator.compare(a, b)\n }\n }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of
nullable values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when {\n a
=== b -> 0\n a == null -> 1\n b == null -> -1\n else -> comparator.compare(a, b)\n }\n }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n *\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T :
Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic fun <T> Comparator<T>.reversed():
Comparator<T> = when (this) {\n is ReversedComparator -> this.comparator\n NaturalOrderComparator ->
@Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)\n ReverseOrderComparator -> @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n else -> ReversedComparator(this)\n}\n\nprivate class ReversedComparator<T>(public val
comparator: Comparator<T>) : Comparator<T> {\n override fun compare(a: T, b: T): Int = comparator.compare(b,
a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<T> =
comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n override fun
compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
NaturalOrderComparator\n}\n\n"/>\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\n\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n */\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n */

```

Always throws [NotImplementedError] stating that operation is not implemented.

```

 @param reason a string explaining why the implementation is missing.
 @kotlin.internal.InlineOnly
 public inline fun TODO(reason: String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")

```

Calls the specified function [block] and returns its result.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).

```

 @kotlin.internal.InlineOnly
 public inline fun <R> run(block: () -> R): R {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 return block()
 }

```

Calls the specified function [block] with `this` value as its receiver and returns its result.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).

```

 @kotlin.internal.InlineOnly
 public inline fun <T, R> T.run(block: T.() -> R): R {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 return block()
 }

```

Calls the specified function [block] with the given [receiver] as its receiver and returns its result.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).

```

 @kotlin.internal.InlineOnly
 public inline fun <T, R> with(receiver: T, block: T.() -> R): R {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 return receiver.block()
 }

```

Calls the specified function [block] with `this` value as its receiver and returns `this` value.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).

```

 @kotlin.internal.InlineOnly
 public inline fun <T> T.apply(block: T.() -> Unit): T {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 block()
 return this
 }

```

Calls the specified function [block] with `this` value as its argument and returns `this` value.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).

```

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
 public inline fun <T> T.also(block: (T) -> Unit): T {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 block(this)
 return this
 }

```

Calls the specified function [block] with `this` value as its argument and returns its result.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).

```

 @kotlin.internal.InlineOnly
 public inline fun <T, R> T.let(block: (T) -> R): R {
 contract {
 callsInPlace(block, InvocationKind.EXACTLY_ONCE)
 }
 return block(this)
 }

```

Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

```

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
 public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
 contract {
 callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
 }
 return if (predicate(this)) this else null
 }

```

Returns `this` value if it does not satisfy the given [predicate] or `null`, if it does.

For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

```

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
 public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
 contract {
 callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
 }
 return if (!predicate(this)) this else null
 }

```

Executes the given function [action] specified number of [times].

A zero-based index of current iteration is passed as a parameter to [action].

@sample

```

 samples.misc.ControlFlow.repeat
 @kotlin.internal.InlineOnly
 public inline fun repeat(times: Int, action: (Int) -> Unit) {
 contract {
 callsInPlace(action)
 }
 for (index in 0 until times) {
 action(index)
 }
 }

```

Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.

Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```

 @package kotlin.comparisons
 @NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
 @See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
 @nimport kotlin.js.*

```

Returns the greater of two values.

If values are equal, returns the first one.

```

 @SinceKotlin("1.1")
 public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
 return if (a >= b) a
 }

```

```

else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n
return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short): Short
{\n
return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n
return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun maxOf(a: Long, b:
Long): Long {\n
return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value
is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
maxOf(a: Float, b: Float): Float {\n
return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`,
returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual
inline fun maxOf(a: Double, b: Double): Double {\n
return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of
three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n
return
maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte {\n
return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of
three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b:
Short, c: Short): Short {\n
return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n *
Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline
fun maxOf(a: Int, b: Int, c: Int): Int {\n
return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long,
c: Long): Long {\n
return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any
value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
maxOf(a: Float, b: Float, c: Float): Float {\n
return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double, c:
Double): Double {\n
return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If
there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.4")\npublic actual fun <T
: Comparable<T>> maxOf(a: T, vararg other: T): T {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun
maxOf(a: Byte, vararg other: Byte): Byte {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a:
Short, vararg other: Short): Short {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a:
Int, vararg other: Int): Int {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n *
Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg
other: Long): Long {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n *
Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Float, vararg other: Float): Float {\n
var max = a\n
for (e
in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any
value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Double, vararg other:
Double): Double {\n
var max = a\n
for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n * Returns
the smaller of two values.\n * \n * If values are equal, returns the first one.\n
*\n@SinceKotlin("1.1")\npublic
actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n
return if (a <= b) a else b\n}\n\n/**\n * Returns the
smaller of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a:
Byte, b: Byte): Byte {\n
return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of

```

```

two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short): Short {\n return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int): Int {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float): Float {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Double, b: Double): Double {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n *\n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int, c: Int): Int {\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float, c: Float): Float {\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of the given values.\n *\n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Long, vararg other: Long): Long {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Float, vararg other: Float): Float {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n companion object {\n /**\n * A constant holding the minimum value an instance of ULong can have.\n *\n * public const val MIN_VALUE: ULong = ULong(0)\n */

```

```

* A constant holding the maximum value an instance of ULong can have.\n *\n public const val
MAX_VALUE: ULong = ULong(-1)\n /**\n * The number of bytes used to represent an instance of
ULong in a binary form.\n *\n public const val SIZE_BYTES: Int = 8\n /**\n * The number of
bits used to represent an instance of ULong in a binary form.\n *\n public const val SIZE_BITS: Int = 64\n
}\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than
other.\n *\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n *\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n *\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n /**\n *
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n *\n @kotlin.internal.InlineOnly\n
 @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun
compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n /** Adds the other value to this value.
*\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong =
this.plus(other.toULong())\n /** Adds the other value to this value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n /** Adds the other value to this
value. *\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong =
this.plus(other.toULong())\n /** Adds the other value to this value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n /** Subtracts the other
value from this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong
= this.minus(other.toULong())\n /** Subtracts the other value from this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n /** Subtracts the other
value from this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n /** Subtracts the other value from this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n /** Multiplies
this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n /** Multiplies this value by
the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder
of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n

```

```

*^@kotlin.internal.InlineOnly public inline operator fun rem(other: UShort): ULong =
this.rem(other.toULong()) /** Calculates the remainder of truncating division of this value by the other
value. * The result is always less than the divisor. ^@kotlin.internal.InlineOnly public
inline operator fun rem(other: UInt): ULong = this.rem(other.toULong()) /** Calculates the remainder of
truncating division of this value by the other value. * The result is always less than the divisor. ^
@kotlin.internal.InlineOnly public inline operator fun rem(other: ULong): ULong = ulongRemainder(this,
other) /** Divides this value by the other value, flooring the result to an integer that is closer to negative
infinity. * For unsigned types, the results of flooring division and truncating division are the same. ^
@kotlin.internal.InlineOnly public inline fun floorDiv(other: UByte): ULong =
this.floorDiv(other.toULong()) /** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. * For unsigned types, the results of flooring division and truncating
division are the same. ^@kotlin.internal.InlineOnly public inline fun floorDiv(other: UShort): ULong
= this.floorDiv(other.toULong()) /** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. * For unsigned types, the results of flooring division and truncating
division are the same. ^@kotlin.internal.InlineOnly public inline fun floorDiv(other: UInt): ULong =
this.floorDiv(other.toULong()) /** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. * For unsigned types, the results of flooring division and truncating
division are the same. ^@kotlin.internal.InlineOnly public inline fun floorDiv(other: ULong): ULong =
div(other) /** Calculates the remainder of flooring division of this value by the other value. * The result is
always less than the divisor. * For unsigned types, the remainders of flooring division and
truncating division are the same. ^@kotlin.internal.InlineOnly public inline fun mod(other: UByte):
UByte = this.mod(other.toULong()).toUByte() /** Calculates the remainder of flooring division of this
value by the other value. * The result is always less than the divisor. * For unsigned types, the
remainders of flooring division and truncating division are the same. ^@kotlin.internal.InlineOnly
public inline fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort() /** Calculates the
remainder of flooring division of this value by the other value. * The result is always less than the
divisor. * For unsigned types, the remainders of flooring division and truncating division are the same. ^
@kotlin.internal.InlineOnly public inline fun mod(other: UInt): UInt =
this.mod(other.toULong()).toUInt() /** Calculates the remainder of flooring division of this value by the
other value. * The result is always less than the divisor. * For unsigned types, the remainders
of flooring division and truncating division are the same. ^@kotlin.internal.InlineOnly public inline
fun mod(other: ULong): ULong = rem(other) /** Returns this value incremented by one. * @sample
samples.misc.Builtins.inc ^@kotlin.internal.InlineOnly public inline operator fun inc():
ULong = ULong(data.inc()) /** Returns this value decremented by one. * @sample
samples.misc.Builtins.dec ^@kotlin.internal.InlineOnly public inline operator fun dec(): ULong =
ULong(data.dec()) /** Creates a range from this value to the specified [other] value. ^
@kotlin.internal.InlineOnly public inline operator fun rangeTo(other: ULong): ULongRange =
ULongRange(this, other) /** Shifts this value left by the [bitCount] number of bits. * Note
that only the six lowest-order bits of the [bitCount] are used as the shift distance. * The shift distance actually
used is therefore always in the range `0..63`. ^@kotlin.internal.InlineOnly public inline infix fun
shl(bitCount: Int): ULong = ULong(data shl bitCount) /** Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros. * Note that only the six lowest-order bits of the
[bitCount] are used as the shift distance. * The shift distance actually used is therefore always in the range
`0..63`. ^@kotlin.internal.InlineOnly public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount) /** Performs a bitwise AND operation between the two values. ^
@kotlin.internal.InlineOnly public inline infix fun and(other: ULong): ULong = ULong(this.data and
other.data) /** Performs a bitwise OR operation between the two values. ^@kotlin.internal.InlineOnly
public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data) /** Performs a bitwise XOR

```



```

operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: ULong):
ULong = ULong(this.data xor other.data) /** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): ULong = ULong(data.inv()) /**
 * Converts this [ULong] value to [Byte].
 * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
 * the same numerical value as this `ULong`.
 * The resulting `Byte` value is represented by the least significant 8 bits
of this `ULong` value.
 * Note that the resulting `Byte` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() /**
 * Converts this [ULong]
value to [Short].
 * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value
represents
 * the same numerical value as this `ULong`.
 * The resulting `Short` value is represented
by the least significant 16 bits of this `ULong` value.
 * Note that the resulting `Short` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort() /**
 * Converts this
[ULong] value to [Int].
 * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int`
value represents
 * the same numerical value as this `ULong`.
 * The resulting `Int` value is
represented by the least significant 32 bits of this `ULong` value.
 * Note that the resulting `Int` value may be
negative. */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() /**
 *
Converts this [ULong] value to [Long].
 * If this value is less than or equals to [Long.MAX_VALUE], the
resulting `Long` value represents
 * the same numerical value as this `ULong`. Otherwise the result is
negative.
 * The resulting `Long` value has the same binary representation as this `ULong` value. */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() /**
 * Converts this [ULong]
value to [UByte].
 * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte`
value represents
 * the same numerical value as this `ULong`.
 * The resulting `UByte` value is
represented by the least significant 8 bits of this `ULong` value. */
@kotlin.internal.InlineOnly
public
inline fun toUByte(): UByte = data.toUByte() /**
 * Converts this [ULong] value to [UShort].
 * If
this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
 * the same
numerical value as this `ULong`.
 * The resulting `UShort` value is represented by the least significant 16
bits of this `ULong` value. */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort =
data.toUShort() /**
 * Converts this [ULong] value to [UInt].
 * If this value is less than or equals
to [UInt.MAX_VALUE], the resulting `UInt` value represents
 * the same numerical value as this `ULong`.
 * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value. */
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = data.toUInt() /** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = this.toULong() /**
 * Converts this [ULong]
value to [Float].
 * The resulting value is the closest `Float` to this `ULong` value.
 * In case when this
`ULong` value is exactly between two `Float`s,
 * the one with zero at least significant bit of mantissa is
selected. */
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat() /**
 * Converts this [ULong] value to [Double].
 * The resulting value is the closest `Double` to this
`ULong` value.
 * In case when this `ULong` value is exactly between two `Double`s,
 * the one with zero at
least significant bit of mantissa is selected. */
@kotlin.internal.InlineOnly
public inline fun toDouble():
Double = ulongToDouble(data)
public override fun toString(): String = ulongToString(data) /**
 * Converts this [Byte] value to [ULong].
 * If this value is positive, the resulting `ULong` value represents the
same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `ULong` value are the same
as the bits of this `Byte` value,
 * whereas the most significant 56 bits are filled with the sign bit of this value. */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Byte.toULong(): ULong = ULong(this.toLong()) /**
 * Converts this [Short] value to
[ULong].
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this
`Short`.
 * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short`
value,
 * whereas the most significant 48 bits are filled with the sign bit of this value. */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Short.toULong(): ULong = ULong(this.toLong()) /**
 * Converts this [Int] value to [ULong]. */

```

```

*\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`. \n *\n *
The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, \n * whereas
the most significant 32 bits are filled with the sign bit of this value. \n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Int.toULong(): ULong = ULong(this.toLong())\n **\n * Converts this [Long] value to [ULong]. \n
*\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`. \n *\n
* The resulting `ULong` value has the same binary representation as this `Long` value. \n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Long.toULong(): ULong = ULong(this)\n **\n * Converts this [Float] value to [ULong]. \n *\n *
The fractional part, if any, is rounded down towards zero. \n * Returns zero if this `Float` value is negative or `NaN`,
[ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n **\n * Converts this [Double]
value to [ULong]. \n *\n * The fractional part, if any, is rounded down towards zero. \n * Returns zero if this
`Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Double.toULong(): ULong = doubleToULong(this)\n ", /*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file. \n
*/\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("CollectionsKt")\n\n package
kotlin.collections\n\n // NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n // See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\n import kotlin.random.*\n import
kotlin.ranges.contains\n import kotlin.ranges.reversed\n\n **\n * Returns 1st *element* from the list. \n * \n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 1. \n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun <T> List<T>.component1(): T {\n return
get(0)\n }\n **\n * Returns 2nd *element* from the list. \n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 2. \n */\n @kotlin.internal.InlineOnly\n public inline operator fun <T>
List<T>.component2(): T {\n return get(1)\n }\n **\n * Returns 3rd *element* from the list. \n * \n * Throws an
[IndexOutOfBoundsException] if the size of this list is less than 3. \n */\n @kotlin.internal.InlineOnly\n
public inline operator fun <T> List<T>.component3(): T {\n return get(2)\n }\n **\n * Returns 4th *element* from the list. \n
*\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4. \n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun <T> List<T>.component4(): T {\n return
get(3)\n }\n **\n * Returns 5th *element* from the list. \n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 5. \n */\n @kotlin.internal.InlineOnly\n public inline operator fun <T>
List<T>.component5(): T {\n return get(4)\n }\n **\n * Returns `true` if [element] is found in the collection. \n
*/\n\n public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n if
(this is Collection)\n return contains(element)\n return indexOf(element) >= 0\n }\n **\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
collection. \n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n public fun <T>
Iterable<T>.elementAt(index: Int): T {\n if (this is List)\n return get(index)\n return
elementAtOrElse(index) {\n throw IndexOutOfBoundsException("Collection doesn't contain element at index
$index.")\n }\n }\n **\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if
the [index] is out of bounds of this list. \n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n\n @kotlin.internal.InlineOnly\n public inline fun <T> List<T>.elementAt(index: Int): T {\n return
get(index)\n }\n **\n * Returns an element at the given [index] or the result of calling the [defaultValue] function
if the [index] is out of bounds of this collection. \n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n\n public fun <T>
Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (this is List)\n return

```

```

this.getOrElse(index, defaultValue)\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n } return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the\n result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n *\n * @sample\n samples.collections.Collections.Elements.elementAtOrElse\n *\n @kotlin.internal.InlineOnly\n\npublic inline fun\n <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the\n [index] is out of bounds of this collection.\n *\n * @sample\n samples.collections.Collections.Elements.elementAtOrNull\n *\n\npublic fun <T>\n Iterable<T>.elementAtOrNull(index: Int): T? {\n if (this is List)\n return this.elementAtOrNull(index)\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n } return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n *\n * @sample\n samples.collections.Collections.Elements.elementAtOrNull\n *\n @kotlin.internal.InlineOnly\n\npublic inline fun\n <T> List<T>.elementAtOrNull(index: Int): T? {\n return this.elementAtOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * @sample\n samples.collections.Collections.Elements.find\n *\n @kotlin.internal.InlineOnly\n\npublic inline fun <T>\n Iterable<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * @sample\n samples.collections.Collections.Elements.find\n *\n @kotlin.internal.InlineOnly\n\npublic inline fun <T>\n Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * @sample\n samples.collections.Collections.Elements.find\n *\n @kotlin.internal.InlineOnly\n\npublic inline fun <T>\n List<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n *\n * @throws [NoSuchElementException] if the collection is empty.\n *\n\npublic fun <T>\n Iterable<T>.first(): T {\n when (this) {\n is List -> return this.first()\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException("Collection is empty.")\n return iterator.next()\n }\n }\n}\n\n/**\n * Returns first element.\n *\n * @throws [NoSuchElementException] if the list is empty.\n *\n\npublic fun <T> List<T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException("List is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *\n * @throws [NoSuchElementException] if no such element is found.\n *\n\npublic inline fun <T>\n Iterable<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n *\n * @sample\n samples.collections.Collections.Transformations.firstNotNullOf\n *\n\n @kotlin.internal.InlineOnly\n\npublic inline fun <T, R : Any>\n Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the collection was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or `null` if no non-null value was produced.\n *\n * @sample\n samples.collections.Collections.Transformations.firstNotNullOf\n *\n\n @kotlin.internal.InlineOnly\n\npublic inline fun <T, R : Any>\n Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result = transform(element)\n if (result != null) {\n return result\n }\n } return null\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n *\n\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n when (this) {\n is List -> {\n if (isEmpty())\n return null\n else\n return this[0]\n }\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n }\n }\n}

```

```

return iterator.next()\n }\n }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic\nfun <T> List<T>.firstOrNull(): T? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element\n matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T>\nIterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return\n element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the\n [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline\nfun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <=\n lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the\n [index] is out of bounds of this list.\n */\n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index)\n else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n if (this is List) return\n this.indexOf(element)\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element\n == item)\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1\n if the list does not contain element.\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false\n warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T>\nList<T>.indexOf(element: T): Int {\n return indexOf(element)\n}\n\n/**\n * Returns index of the first element\n matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T>\nIterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain\n such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such\n element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -\n 1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns index of the last element matching\n the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>\nList<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n val iterator = this.listIterator(size)\n while\n (iterator.hasPrevious()) {\n if (predicate(iterator.previous()))\n return iterator.nextIndex()\n }\n return -1\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the collection\n is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T\n {\n when (this) {\n is List -> return this.last()\n else -> {\n val iterator = iterator()\n if\n (!iterator.hasNext())\n throw NoSuchElementException("Collection is empty.")\n var last =\n iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the list is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException("List is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last\n element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T>\nIterable<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this)\n if (predicate(element)) {\n last = element\n found = true\n }\n if (!found) throw\n NoSuchElementException("Collection contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns the last element matching the\n given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T\n {\n val iterator = this.listIterator(size)\n while (iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n throw NoSuchElementException("List contains no element

```

```

matching the predicate.}
}
}

Returns last index of [element], or -1 if the collection does not contain
element.
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {
 if (this is List) return this.lastIndexOf(element)
 var lastIndex = -1
 var index = 0
 for (item in this) {
 checkIndexOverflow(index)
 if (element == item)
 lastIndex = index
 index++
 }
 return lastIndex
}

Returns last index of [element], or -1 if the list does not contain element.
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {
 return
 lastIndexOf(element)
}

Returns the last element, or `null` if the collection is empty.
@sample
samples.collections.Collections.Elements.last
public fun <T> Iterable<T>.lastOrNull(): T? {
 when (this) {
 is List -> return if (isEmpty()) null else this[size - 1]
 else -> {
 val iterator = iterator()
 if (!iterator.hasNext())
 return null
 var last = iterator.next()
 while (iterator.hasNext())
 last = iterator.next()
 return last
 }
 }
}

Returns the last element, or `null` if the
list is empty.
@sample
samples.collections.Collections.Elements.last
public fun <T>
List<T>.lastOrNull(): T? {
 return if (isEmpty()) null else this[size - 1]
}

Returns the last element
matching the given [predicate], or `null` if no such element was found.
@sample
samples.collections.Collections.Elements.last
public inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->
Boolean): T? {
 var last: T? = null
 for (element in this) {
 if (predicate(element))
 last =
 element
 }
 return last
}

Returns the last element matching the given [predicate], or `null`
if no such element was found.
@sample
samples.collections.Collections.Elements.last
public inline
fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {
 val iterator = this.listIterator(size)
 while
(iterator.hasPrevious()) {
 val element = iterator.previous()
 if (predicate(element)) return element
 }
 return null
}

Returns a random element from this collection.
@throws
NoSuchElementException if this collection is empty.
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
 return random(Random)
}

Returns a random element from this collection using the specified source of
randomness.
@throws
NoSuchElementException if this collection is empty.
@SinceKotlin("1.3")
public fun <T> Collection<T>.random(random: Random): T {
 if (isEmpty())
 throw NoSuchElementException("Collection is empty.")
 return elementAt(random.nextInt(size))
}

Returns a random element from this collection, or `null` if this collection is empty.
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public
inline fun <T> Collection<T>.randomOrNull(): T? {
 return randomOrNull(Random)
}

Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T>
Collection<T>.randomOrNull(random: Random): T? {
 if (isEmpty())
 return null
 return
 elementAt(random.nextInt(size))
}

Returns the single element, or throws an exception if the collection is
empty or has more than one element.
public fun <T> Iterable<T>.single(): T {
 when (this) {
 is List -
 > return this.single()
 else -> {
 val iterator = iterator()
 if (!iterator.hasNext())
 throw NoSuchElementException("Collection is empty.")
 val single = iterator.next()
 if
(iterator.hasNext())
 throw IllegalArgumentException("Collection has more than one element.")
 return single
 }
 }
}

Returns the single element, or throws an exception if the list is empty or
has more than one element.
public fun <T> List<T>.single(): T {
 return when (size) {
 0 -> throw
 NoSuchElementException("List is empty.")
 1 -> this[0]
 else -> throw
 IllegalArgumentException("List has more than one element.")
 }
}

Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.
public
inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {
 var single: T? = null
 var found = false
 for (element in this) {
 if (predicate(element)) {
 if (found) throw
 NoSuchElementException("Collection contains more than one matching element.")
 single = element
 found = true
 }
 }
 if (!found) throw NoSuchElementException("Collection contains no element

```

```

matching the predicate.\n @Suppress("UNCHECKED_CAST")\n return single as T\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n when (this) {\n is List -> return if (size == 1) this[0] else null\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val single = iterator.next()\n if (iterator.hasNext())\n return null\n return single\n }\n }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return toList()\n val list: ArrayList<T>\n if (this is Collection<*>) {\n val resultSize = size - n\n if (resultSize <= 0)\n return emptyList()\n if (resultSize == 1)\n return listOf(last())\n list = ArrayList<T>(resultSize)\n }\n if (this is List<T>) {\n if (this is RandomAccess) {\n for (index in n until size)\n list.add(this[index])\n } else {\n for (item in listIterator(n))\n list.add(item)\n }\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n if (!predicate(iterator.previous()))\n return take(iterator.nextIndex() + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return

```

```

filterIsInstanceTo(Iterable<R>())\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is
R) destination.add(element)\n return destination}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T>
Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(Iterable<T>()),
predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic fun <T : Any> Iterable<T?>.filterNotNull():
List<T> {\n return filterNotNullTo(Iterable<T?>())}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C
: MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if
(element != null) destination.add(element)\n return destination}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return
destination}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in
T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination}\n\n/**\n * Returns a list containing elements
at indices in the specified [indices] range.\n *\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n if
(indices.isEmpty()) return listOf()\n return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n
* Returns a list containing elements at specified [indices].\n *\npublic fun <T> List<T>.slice(indices:
Iterable<Int>): List<T> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n
val list = ArrayList<T>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list}\n\n/**\n
* Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Iterable<T>.take(n: Int):
List<T> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return
emptyList()\n if (this is Collection<T>) {\n if (n >= size) return toList()\n if (n == 1) return
listOf(first())\n }\n var count = 0\n val list = ArrayList<T>(n)\n for (item in this) {\n list.add(item)\n
if (++count == n)\n break\n }\n return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing
last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(last())\n val list = ArrayList<T>(n)\n if (this is
RandomAccess) {\n for (index in size - n until size)\n list.add(this[index])\n } else {\n for (item in
listIterator(size - n))\n list.add(item)\n }\n return list}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n if (isEmpty())\n return
emptyList()\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n if
(!predicate(iterator.previous())) {\n iterator.next()\n val expectedSize = size - iterator.nextIndex()\n
if (expectedSize == 0) return emptyList()\n return ArrayList<T>(expectedSize).apply {\n while
(iterator.hasNext())\n add(iterator.next())\n }\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing
first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> Iterable<T>.takeWhile(predicate:
(T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n
break\n list.add(item)\n }\n return list}\n\n/**\n * Reverses elements in the list in-place.\n *\npublic
expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n

```

```

*\npublic fun <T> Iterable<T>.reversed(): List<T> {\n if (this is Collection && size <= 1) return toList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n**\n * Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n\n*\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n this[j] = this.set(i, this[j])\n }\n}\n\n**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortByWith(compareBy(selector))\n}\n\n**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortByWith(compareByDescending(selector))\n}\n\n**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n sortByWith(reverseOrder())\n}\n\n**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @Suppress("UNCHECKED_CAST")\n return (toArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n }\n return toMutableList().apply { sort() }\n}\n\n**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n return sortedWith(reverseOrder())\n}\n\n**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n\n*\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @Suppress("UNCHECKED_CAST")\n return (toArray<Any?>() as Array<T>).apply { sortByWith(comparator) }.asList()\n }\n return toMutableList().apply { sortByWith(comparator) }\n}\n\n**\n * Returns an array of Boolean containing all of the elements of this collection.\n\n*\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n val result = BooleanArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n**\n * Returns an array of Byte containing all of the elements of this collection.\n\n*\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n val result = ByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n**\n * Returns an array of Char containing all of the elements of this collection.\n\n*\npublic fun Collection<Char>.toCharArray(): CharArray {\n val result = CharArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n**\n * Returns an array of Double containing all of the elements of this collection.\n\n*\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n val result = DoubleArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n**\n * Returns an array of Float containing

```



```

all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n val result
= FloatArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return
result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun
Collection<Int>.toIntArray(): IntArray {\n val result = IntArray(size)\n var index = 0\n for (element in this)\n
 result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Long containing all of the elements
of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n val result =
LongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return
result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun
Collection<Short>.toShortArray(): ShortArray {\n val result = ShortArray(size)\n var index = 0\n for (element
in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs
provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would
have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic
inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed
by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and
indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in
K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n
destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n *
\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n
destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are

```

elements from the given collection and values are produced by the [valueSelector] function applied to each element.

If any two elements are equal, the last one gets added to the map.

The returned map preserves the entry iteration order of the original collection.

@sample

```

samples.collections.Collections.Transformations.associateWith
*/n@SinceKotlin("1.3")
npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
 val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection, where key is the element itself and value is provided by the [valueSelector] function applied to that key.

If any two elements are equal, the last one overwrites the former value in the map.

@sample

```

samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.3")
npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Appends all elements to the given [destination] collection.

```

*/n@SinceKotlin("1.3")
npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {
 for (item in this) {
 destination.add(item)
 }
 return destination
}

```

Returns a new [HashSet] of all elements.

```

*/n@SinceKotlin("1.3")
npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {
 return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))
}

```

Returns a [List] containing all elements.

```

*/n@SinceKotlin("1.3")
npublic fun <T> Iterable<T>.toList(): List<T> {
 if (this is Collection) {
 return when (size) {
 0 -> emptyList()
 1 -> listOf(if (this is List) get(0) else iterator().next())
 else -> this.toMutableList()
 }
 }
 return this.toMutableList().optimizeReadOnlyList()
}

```

Returns a new [MutableList] filled with all elements of this collection.

```

*/n@SinceKotlin("1.3")
npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {
 if (this is Collection<T>) {
 return this.toMutableList()
 }
 return toCollection(ArrayList<T>())
}

```

Returns a new [MutableList] filled with all elements of this collection.

```

*/n@SinceKotlin("1.3")
npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {
 return ArrayList(this)
}

```

Returns a [Set] of all elements.

The returned set preserves the element iteration order of the original collection.

```

*/n@SinceKotlin("1.3")
npublic fun <T> Iterable<T>.toSet(): Set<T> {
 if (this is Collection) {
 return when (size) {
 0 -> emptySet()
 1 -> setOf(if (this is List) this[0] else iterator().next())
 else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
 }
 }
 return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()
}

```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.

@sample

```

samples.collections.Collections.Transformations.flatMap
*/n@SinceKotlin("1.4")
n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
n@OverloadResolutionByLambdaReturnType
n@kotlin.jvm.JvmName("flatMapSequence")
npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {
 return flatMapTo(ArrayList<R>(), transform)
}

```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.

@sample

```

samples.collections.Collections.Transformations.flatMap
*/n@SinceKotlin("1.4")
n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
n@OverloadResolutionByLambdaReturnType
n@kotlin.jvm.JvmName("flatMapSequence")
npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {
 return flatMapTo(ArrayList<R>(), transform)
}

```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element and its index in the original collection.

@sample

```

samples.collections.Collections.Transformations.flatMapIndexed
*/n@SinceKotlin("1.4")
n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
n@OverloadResolutionByLambdaReturnType
n@kotlin.jvm.JvmName("flatMapIndexedIterable")
n@kotlin.internal.InlineOnly
npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {
 return flatMapIndexedTo(ArrayList<R>(), transform)
}

```

Returns a single list of all elements yielded from results of [transform] function being invoked on each element and its index in the original collection.

@sample

```

samples.collections.Collections.Transformations.flatMapIndexed
*/n@SinceKotlin("1.4")
n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
n@OverloadResolutionByLambdaReturnType
n@kotlin.jvm.JvmName("flatMapIndexedIterable")
n@kotlin.internal.InlineOnly
npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {
 return flatMapIndexedTo(ArrayList<R>(), transform)
}

```

```

ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original collection, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n * \npublic inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to the
given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \npublic inline
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original collection\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \npublic
inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \npublic inline fun <T, K, M : MutableMap<in K,
MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n
 val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied
to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n

```

```

 * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n public inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination}\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n * \n @SinceKotlin("1.1")\n public inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K>
{\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element:
T): K = keySelector(element)\n }\n}\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n * \n public inline fun <T, R> Iterable<T>.map(transform:
(T) -> R): List<R> {\n return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n *
and returns the result of the transform applied to the element.\n * \n public inline fun <T, R>
Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n}\n\n/**\n * Returns a list containing only
the non-null results of applying the given [transform] function\n * to each element and its index in the original
collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns
the result of the transform applied to the element.\n * \n public inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n * \n public inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination}\n}\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\n * and appends the
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n * \n public inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return
destination}\n}\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n * \n public inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and
appends only the non-null results to the given [destination].\n * \n public inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination}\n}\n}\n\n/**\n * Applies the given
[transform] function to each element of the original collection\n * and appends the results to the given
[destination].\n * \n public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C,
transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination}\n}\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an
[IndexValue] containing the index of that element and the element itself.\n * \n public fun <T>
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n}\n\n/**\n *

```

Returns a list containing only distinct elements from the given collection.

- Among equal elements of the given collection, only the first one will be present in the resulting list.
- The elements in the resulting list are in the same order as they were in the source collection.

@sample

```
samples.collections.Collections.Transformations.distinctAndDistinctBy
```

```
public fun <T> Iterable<T>.distinct(): List<T> {
 return this.toMutableSet().toList()
}
```

Returns a list containing only elements from the given collection having distinct keys returned by the given [selector] function.

- Among elements of the given collection with equal keys, only the first one will be present in the resulting list.
- The elements in the resulting list are in the same order as they were in the source collection.

@sample

```
samples.collections.Collections.Transformations.distinctAndDistinctBy
```

```
public inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
 val set = HashSet<K>()
 val list = ArrayList<T>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key)) list.add(e)
 }
 return list
}
```

Returns a set containing all elements that are contained by both this collection and the specified collection.

The returned set preserves the element iteration order of the original collection.

To get a set containing all elements that are contained at least in one of these collections use [union].

```
public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}
```

Returns a set containing all elements that are contained by this collection and not contained by the specified collection.

The returned set preserves the element iteration order of the original collection.

```
public infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.removeAll(other)
 return set
}
```

Returns a new [MutableSet] containing all distinct elements from the given collection.

The returned set preserves the element iteration order of the original collection.

```
public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
 return when (this) {
 is Collection<T> -> LinkedHashSet(this)
 else -> toCollection(LinkedHashSet<T>())
 }
}
```

Returns a set containing all distinct elements from both collections.

The returned set preserves the element iteration order of the original collection.

Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

To get a set containing all elements that are contained in both collections use [intersect].

```
public infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}
```

Returns `true` if all elements match the given [predicate].

@sample

```
samples.collections.Collections.Aggregates.all
```

```
public inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {
 if (this is Collection && isEmpty()) return true
 for (element in this) if (!predicate(element)) return false
 return true
}
```

Returns `true` if collection has at least one element.

@sample

```
samples.collections.Collections.Aggregates.any
```

```
public fun <T> Iterable<T>.any(): Boolean {
 if (this is Collection) return !isEmpty()
 return iterator().hasNext()
}
```

Returns `true` if at least one element matches the given [predicate].

@sample

```
samples.collections.Collections.Aggregates.anyWithPredicate
```

```
public inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {
 if (this is Collection && isEmpty()) return false
 for (element in this) if (predicate(element)) return true
 return false
}
```

Returns the number of elements in this collection.

```
public fun <T> Iterable<T>.count(): Int {
 if (this is Collection) return size
 var count = 0
 for (element in this) checkCountOverflow(++count)
 return count
}
```

Returns the number of elements in this collection.

```
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.count(): Int {
 return size
}
```

Returns the number of elements matching the given [predicate].

```
public inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {
 if (this is Collection && isEmpty()) return 0
 var count = 0
 for (element in this) if (predicate(element)) checkCountOverflow(++count)
 return count
}
```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

Returns the specified [initial] value if the collection is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```
public inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
 var accumulator = initial
 for (element in this) accumulator = operation(accumulator, element)
 return accumulator
}
```

Accumulates value starting with [initial] value and applying [operation] from left to

```

right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var
index = 0\n var accumulator = initial\n for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator =
initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n
accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is
empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R>
List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if
(!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index =
iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element.\n * \n * @param [action] function that takes the index of an element and the element itself\n *
and performs the action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int,
T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++),
item)\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")\nReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R):
T? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var
maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <
v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return
maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v
= selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWith(comparator: Comparator<R>, selector: (T) -> R): R {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n

```

```

 max Value = v\n }\n }\n return max Value\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the collection or `null`
if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
iterator()\n if (!iterator.hasNext()) return null\n var max Value = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(max Value, v) < 0) {\n
max Value = v\n }\n }\n return max Value\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.maxOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var
max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n max = maxOf(max, e)\n
}\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.maxOrNull(): Float? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Iterable<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n
var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n
}\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use
minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.min(): Double?
{\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.")\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R):
T? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min Elem = iterator.next()\n if (!iterator.hasNext()) return min Elem\n var
min Value = selector(min Elem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (min Value >
v) {\n min Elem = e\n min Value = v\n }\n } while (iterator.hasNext())\n return
min Elem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

```



```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v
= selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:
Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v

```

```

= selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n}\n\nreturn minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator] among all\n * values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nIterable<T>.minOfOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =\niterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while\n(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are\n * no elements.\n */\n\n * If any of elements is `NaN` returns `NaN`.\n\n@SinceKotlin("1.4")\npublic fun\nIterable<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var\nmin = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n\n * If any of elements\n * is `NaN` returns `NaN`.\n\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.minOrNull(): Float? {\n val\niterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext())\n{\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest\n * element or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>>\nIterable<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min =\niterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return\nmin\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n\nreturn minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to\n * the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun <T>\nIterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if\n(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =\niterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if\n * the collection has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n\n@public fun\n<T> Iterable<T>.none(): Boolean {\n if (this is Collection) return isEmpty()\n return\n!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n */\n\n * @sample\n * samples.collections.Collections.Aggregates.noneWithPredicate\n\n@public inline fun <T>\nIterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for\n(element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each\n * element and returns the collection itself afterwards.\n */\n\n@SinceKotlin("1.1")\npublic inline fun <T, C :>\nIterable<T>>.C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this) action(element)\n}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and\n * returns the collection itself afterwards.\n */\n\n * @param [action] function that takes the index of an element and the\n * element itself\n * and performs the action on the element.\n\n@SinceKotlin("1.4")\npublic inline fun <T, C :>\nIterable<T>>.C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n return apply { forEachIndexed(action)\n}\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to\n * current accumulator value and each element.\n */\n\n * Throws an exception if this collection is empty. If the\n * collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver\n * is empty.\n */\n\n * @param [operation] function that takes current accumulator value and an element,\n * and\n * calculates the next accumulator value.\n\n * @sample samples.collections.Collections.Aggregates.reduce\n\n@public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if\n(!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n var\naccumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator,\niterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and

```

applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original collection.\n \* \n \* Throws an exception if this collection is empty. If the collection can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n \* \n \* @public inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original collection.\n \* \n \* Returns `null` if the collection is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* \n \* @SinceKotlin("1.4")\n \* \n \* @public inline fun <S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the collection is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* @public inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n \* \n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this list is empty. If the list can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \* \n \* \n \* @public inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if (!iterator.hasPrevious())\n throw UnsupportedOperationException("Empty list can't be reduced.")\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n return accumulator\n}\n \* \n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original list and current accumulator value.\n \* \n \* Throws an exception if this list is empty. If the list can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \* \n \* \n \* @public inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if (!iterator.hasPrevious())\n throw UnsupportedOperationException("Empty list can't be reduced.")\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n return accumulator\n}\n \* \n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original list and current accumulator value.\n \* \n \* Returns `null` if the list is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin("\\1.4\\")\\npublic inline fun <S,
T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\\n val iterator =
listIterator(size)\\n if (!iterator.hasPrevious())\\n return null\\n var accumulator: S = iterator.previous()\\n
while (iterator.hasPrevious()) {\\n val index = iterator.previousIndex()\\n accumulator = operation(index,
iterator.previous(), accumulator)\\n }\\n return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the last
element and applying [operation] from right to left\\n * to each element and current accumulator value.\\n * \\n *
Returns `null` if the list is empty.\\n * \\n * @param [operation] function that takes an element and current
accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\\n
*^\\n@SinceKotlin("\\1.4\\")\\n@WasExperimental(ExperimentalStdlibApi::class)\\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\\n val iterator = listIterator(size)\\n if
(!iterator.hasPrevious())\\n return null\\n var accumulator: S = iterator.previous()\\n while
(iterator.hasPrevious()) {\\n accumulator = operation(iterator.previous(), accumulator)\\n }\\n return
accumulator\\n}\\n\\n/**\\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\\n * to each element and current accumulator value that starts with [initial] value.\\n * \\n
* Note that `acc` value passed to [operation] function should not be mutated;\\n * otherwise it would affect the
previous value in resulting list.\\n * \\n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.runningFold\\n *^\\n@SinceKotlin("\\1.4\\")\\npublic inline fun <T, R>
Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\\n val estimatedSize =
collectionSizeOrDefault(9)\\n if (estimatedSize == 0) return listOf(initial)\\n val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }\\n var accumulator = initial\\n for (element in this) {\\n
accumulator = operation(accumulator, element)\\n result.add(accumulator)\\n }\\n return result\\n}\\n\\n/**\\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\\n * to
each element, its index in the original collection and current accumulator value that starts with [initial] value.\\n * \\n
* Note that `acc` value passed to [operation] function should not be mutated;\\n * otherwise it would affect the
previous value in resulting list.\\n * \\n * @param [operation] function that takes the index of an element, current
accumulator value\\n * and the element itself, and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.runningFold\\n *^\\n@SinceKotlin("\\1.4\\")\\npublic inline fun <T, R>
Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\\n val estimatedSize
= collectionSizeOrDefault(9)\\n if (estimatedSize == 0) return listOf(initial)\\n val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }\\n var index = 0\\n var accumulator = initial\\n for
(element in this) {\\n accumulator = operation(index++, accumulator, element)\\n result.add(accumulator)\\n
 }\\n return result\\n}\\n\\n/**\\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\\n * to each element and current accumulator value that starts with the first element of
this collection.\\n * \\n * Note that `acc` value passed to [operation] function should not be mutated;\\n * otherwise it
would affect the previous value in resulting list.\\n * \\n * @param [operation] function that takes current accumulator
value and the element, and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.runningReduce\\n
*^\\n@SinceKotlin("\\1.4\\")\\n@WasExperimental(ExperimentalStdlibApi::class)\\npublic inline fun <S, T : S>
Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\\n val iterator = this.iterator()\\n if
(!iterator.hasNext()) return emptyList()\\n var accumulator: S = iterator.next()\\n val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\\n while (iterator.hasNext()) {\\n
accumulator = operation(accumulator, iterator.next())\\n result.add(accumulator)\\n }\\n return
result\\n}\\n\\n/**\\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\\n * to each element, its index in the original collection and current accumulator value that starts with the
first element of this collection.\\n * \\n * Note that `acc` value passed to [operation] function should not be mutated;\\n
* otherwise it would affect the previous value in resulting list.\\n * \\n * @param [operation] function that takes the

```

index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
 val iterator = this.iterator()
 if (!iterator.hasNext()) return emptyList()
 var accumulator: S = iterator.next()
 val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {
 add(accumulator)
 }
 var index = 1
 while (iterator.hasNext()) {
 accumulator = operation(index++, accumulator, iterator.next())
 result.add(accumulator)
 }
 return result
}
*/n/n/**n * Returns a list containing successive accumulation values generated by applying [operation] from left to rightn * to each element and current accumulator value that starts with [initial] value.n * Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would affect the previous value in resulting list.n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.n * @sample samples.collections.Collections.Aggregates.scan
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
 return runningFold(initial, operation)
}
*/n/n/**n * Returns a list containing successive accumulation values generated by applying [operation] from left to rightn * to each element, its index in the original collection and current accumulator value that starts with [initial] value.n * Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would affect the previous value in resulting list.n * @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.n * @sample samples.collections.Collections.Aggregates.scan
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))n@DeprecatedSinceKotlin(warningSince = "1.5")npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
 var sum: Int = 0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))n@DeprecatedSinceKotlin(warningSince = "1.5")npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolutionByLambdaReturnTypen@kotlin.jvm.JvmName("sumOfDouble")n@kotlin.internal.InlineOnlynpublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolutionByLambdaReturnTypen@kotlin.jvm.JvmName("sumOfInt")n@kotlin.internal.InlineOnlynpublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {
 var sum: Int = 0.toInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolutionByLambdaReturnTypen@kotlin.jvm.JvmName("sumOfLong")n@kotlin.internal.InlineOnlynpublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
*/n/n/**n * Returns the sum of all values produced by [selector] function applied to each element in the collection.n */n@SinceKotlin("1.5")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return
sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
collection.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n *\npublic fun <T : Any>
Iterable<T?>.requireNotNulls(): Iterable<T> {\n for (element in this) {\n if (element == null) {\n throw
IllegalArgumentException("\null element found in $this.")\n }\n }\n
@Suppress("\UNCHECKED_CAST")\n return this as Iterable<T>}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\npublic fun <T : Any> List<T?>.requireNotNulls(): List<T> {\n for (element in this) {\n if (element ==
null) {\n throw IllegalArgumentException("\null element found in $this.")\n }\n }\n
@Suppress("\UNCHECKED_CAST")\n return this as List<T>}\n\n/**\n * Splits this collection into a list of
lists each not exceeding the given [size].\n *\n * The last list in the resulting list may have fewer elements than the
given [size].\n *\n * @param size the number of elements to take in each list, must be positive and can be greater
than the number of elements in this collection.\n *\n * @sample
samples.collections.Collections.Transformations.chunked\n *\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n
* Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform]
function to an each.\n *\n * @return list of results of the [transform] applied to an each list.\n *\n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it
or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than
the given [size].\n *\n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n *\n * @sample samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list
containing all elements of the original collection without the first occurrence of the given [element].\n *\npublic
operator fun <T> Iterable<T>.minus(element: T): List<T> {\n val result =
ArrayList<T>(collectionSizeOrDefault(10))\n var removed = false\n return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the
original collection except the elements contained in the given [elements] array.\n *\n * Before Kotlin 1.6, the
[elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required
to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive
invocations.\n * On JVM, you can enable this behavior back with the system property
`kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n if (elements.isEmpty()) return this.toList()\n val other
= elements.convertToSetForSetOperation()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list
containing all elements of the original collection except the elements contained in the given [elements] collection.\n
*\n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the
operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that
didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system
property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\npublic operator fun <T>
Iterable<T>.minus(elements: Iterable<T>): List<T> {\n val other =

```

```

elements.convertToSetForSetOperationWith(this)
if (other.isEmpty()) return this.toList()
return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection except the
 * elements contained in the given [elements] sequence.
 *
 * Before Kotlin 1.6, the [elements] sequence may have
 * been converted to a [HashSet] to speed up the operation, thus the elements were required to have
 * a correct and stable implementation of hashCode() that didn't change between successive invocations.
 * On JVM, you can enable this behavior back with the system property kotlin.collections.convert_arg_to_set_in_removeAll set to
 * true.
 */
public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
 val other = elements.convertToSetForSetOperation()
 if (other.isEmpty()) return this.toList()
 return this.filterNot { it in other }
}

/**
 * Returns a list containing all elements of the original collection without the first occurrence
 * of the given [element].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {
 return minus(element)
}

/**
 * Splits the original collection into pair of lists,
 * where *first* list contains elements for which [predicate] yielded true,
 * while *second* list contains elements for which [predicate] yielded false.
 */
@sample
samples.collections.Iterables.Operations.partition
public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
 val first = ArrayList<T>()
 val second = ArrayList<T>()
 for (element in this) {
 if (predicate(element)) first.add(element)
 else second.add(element)
 }
 return Pair(first, second)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
public operator fun <T> Iterable<T>.plus(element: T): List<T> {
 if (this is Collection) return this.plus(element)
 val result = ArrayList<T>()
 result.addAll(this)
 result.add(element)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
public operator fun <T> Collection<T>.plus(element: T): List<T> {
 val result = ArrayList<T>(size + 1)
 result.addAll(this)
 result.add(element)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] array.
 */
public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
 if (this is Collection) return this.plus(elements)
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] array.
 */
public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
 val result = ArrayList<T>(this.size + elements.size)
 result.addAll(this)
 result.addAll(elements)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] collection.
 */
public operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {
 if (this is Collection) return this.plus(elements)
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] collection.
 */
public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
 if (elements is Collection) {
 val result = ArrayList<T>(this.size + elements.size)
 result.addAll(this)
 result.addAll(elements)
 return result
 } else {
 val result = ArrayList<T>(this.size)
 result.addAll(this)
 result.addAll(elements)
 return result
 }
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] sequence.
 */
public operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given
 * [elements] sequence.
 */
public operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {
 val result = ArrayList<T>(this.size + 10)
 result.addAll(this)
 result.addAll(elements)
 return result
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.plusElement(element: T): List<T> {
 return plus(element)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.plusElement(element: T): List<T> {
 return plus(element)
}

/**
 * Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step],
 * where each
 */

```

snapshot is a list.

Several last lists may have fewer elements than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any,

by default `false` which means partial windows won't be preserved

@sample

```

samples.collections.Sequences.Transformations.takeWindows
^
@SinceKotlin("1.2")
public fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {
 checkWindowSizeStep(size, step)
 if (this is RandomAccess && this is List) {
 val thisSize = this.size
 val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
 val result = ArrayList<List<T>>(resultCapacity)
 var index = 0
 while (index in 0 until thisSize) {
 val windowSize = size.coerceAtMost(thisSize - index)
 if (windowSize < size && !partialWindows) break
 result.add(List(windowSize) { this[it + index] })
 index += step
 }
 return result
 }
 val result = ArrayList<List<T>>()
 windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
 result.add(it)
 }
 return result
}

```

Returns a list of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this collection with the given [step].

Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.

You should not store it or allow it to escape in some way, unless you made a snapshot of it.

Several last lists may have fewer elements than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any,

by default `false` which means partial windows won't be preserved

@sample

```

samples.collections.Sequences.Transformations.averageWindows
^
@SinceKotlin("1.2")
public fun <T, R>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
List<R> {
 checkWindowSizeStep(size, step)
 if (this is RandomAccess && this is List) {
 val thisSize = this.size
 val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
 val result = ArrayList<R>(resultCapacity)
 val window = MovingSubList(this)
 var index = 0
 while (index in 0 until thisSize) {
 val windowSize = size.coerceAtMost(thisSize - index)
 if (!partialWindows && windowSize < size) break
 window.move(index, index + windowSize)
 result.add(transform(window))
 index += step
 }
 return result
 }
 val result = ArrayList<R>()
 windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
 result.add(transform(it))
 }
 return result
}

```

Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.

The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable
^
public infix fun <T, R> Iterable<T>.zip(other:
Array<out R>): List<Pair<T, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of values built from the elements of `this` collection and the [other] array with the same index using the provided [transform] function applied to each pair of elements.

The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform
^
public inline fun <T, R, V>
Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
 val arraySize = other.size
 val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in this) {
 if (i >= arraySize) break
 list.add(transform(element, other[i++]))
 }
 return list
}

```

Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.

The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable
^
public infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {
 return zip(other) { t1, t2 ->
t1 to t2 }
}

```

Returns a list of values built from the elements of `this` collection and the [other] collection with the same index using the provided [transform] function applied to each pair of elements.

The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform
^
public inline fun <T, R, V>

```



```

Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
 val first = iterator()
 val second = other.iterator()
 val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))
 while (first.hasNext() && second.hasNext()) {
 list.add(transform(first.next(), second.next()))
 }
 return list
}

```

\* Returns a list of pairs of each two adjacent elements in this collection.  
 \* The returned list is empty if this collection contains less than two elements.  
 @sample samples.collections.Collections.Transformations.zipWithNext

```

*
@SinceKotlin("1.2")
public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
 return zipWithNext { a, b -> a to b }
}

```

\* Returns a list containing the results of applying the given [transform] function to an each pair of two adjacent elements in this collection.  
 \* The returned list is empty if this collection contains less than two elements.  
 @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas

```

*
@SinceKotlin("1.2")
public inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {
 val iterator = iterator()
 if (!iterator.hasNext()) return emptyList()
 val result = mutableListOf<R>()
 var current = iterator.next()
 while (iterator.hasNext()) {
 val next = iterator.next()
 result.add(transform(current, next))
 current = next
 }
 return result
}

```

\* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.  
 \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").  
 @sample samples.collections.Collections.Transformations.joinTo

```

*
public fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1) buffer.append(separator)
 if (limit < 0 || count <= limit) {
 buffer.appendElement(element, transform)
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

```

\* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.  
 \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").  
 @sample samples.collections.Collections.Transformations.joinToString

```

*
public fun <T> Iterable<T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

```

\* Returns this collection as an [Iterable].  
 @kotlin.internal.InlineOnly

```

public inline fun <T> Iterable<T>.asIterable(): Iterable<T> {
 return this
}

```

\* Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.  
 @sample samples.collections.Sequences.Building.sequenceFromCollection

```

*
public fun <T> Iterable<T>.asSequence(): Sequence<T> {
 return Sequence { this.iterator() }
}

```

\* Returns an average value of elements in the collection.  
 @kotlin.jvm.JvmName("averageOfByte")

```

public fun Iterable<Byte>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

\* Returns an average value of elements in the collection.  
 @kotlin.jvm.JvmName("averageOfShort")

```

public fun Iterable<Short>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

\* Returns an average value of elements in the collection.  
 @kotlin.jvm.JvmName("averageOfInt")

```

public fun Iterable<Int>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

\* Returns an average value of elements in the collection.  
 @kotlin.jvm.JvmName("averageOfLong")

```

public fun Iterable<Long>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 }
}

```

```

checkCountOverflow(++count)\n } \n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Iterable<Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun
Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n var sum: Int = 0\n
for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum(): Long {\n var
sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the
sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun
Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double
= 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/**\n * Returns the array if it's not `null`, or an
empty array otherwise.\n */\n@sample samples.collections.Arrays.Usage.arrayOrEmpty\n\n/**\n * @kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?:
emptyArray<T>()\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n */\n *
Allocates an array of runtime type `T` having its size equal to the size of this collection\n * and populates the array
with the elements of this collection.\n */\n@sample
samples.collections.Collections.Collections.collectionToTypedArray\n\n/**\n * @kotlin.internal.InlineOnly\npublic
actual inline fun <T> Collection<T>.toArray(): Array<T> =
copyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:
Collection<T>): Array<T> {\n return if (collection.asDynamic().toArray !== undefined)\n
collection.asDynamic().toArray().unsafeCast<Array<T>>()\n else\n
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n val array = emptyArray<Any?>()\n val iterator
= collection.iterator()\n while (iterator.hasNext())\n array.asDynamic().push(iterator.next())\n return
array\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n if (array.size < collection.size)\n return
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n val iterator = collection.iterator()\n var index = 0\n
while (iterator.hasNext()) {\n array[index++] = iterator.next().unsafeCast<T>()\n }\n if (index < array.size)
{\n array[index] = null.unsafeCast<T>()\n }\n return array\n}\n\n/**\n * Returns an immutable list
containing only the specified object [element].\n */\n\npublic fun <T> listOf(element: T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual
inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E> {\n return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.Inlin
eOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit):

```

```

List<E> {\n checkBuilderCapacity(capacity)\n return
ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable set containing only the
specified object [element].\n * \npublic fun <T> setOf(element: T): Set<T> =
hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <E> buildSetInternal(builderAction: MutableSet<E>().-> Unit): Set<E> {\n return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.
InlineOnly\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().-> Unit):
Set<E> {\n return LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an
immutable map, mapping only the specified key to the\n * specified value.\n * \npublic fun <K, V> mapOf(pair:
Pair<K, V>): Map<K, V> =
hashMapOf(pair)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().-> Unit): Map<K, V> {\n return
LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninte
rnal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().-> Unit):
Map<K, V> {\n return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the
list with the provided [value].\n * \n * Each element in the list gets replaced with the [value].\n
\n\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n for (index in
0..lastIndex) {\n this[index] = value\n }\n}\n\n/**\n * Randomly shuffles elements in this list.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
\n\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n}\n\n/**\n *
Returns a new list with the elements of this list randomly shuffled.\n * \n\n@SinceKotlin("1.2")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n}\n\n/**\n * Sorts elements in the list in-
place according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n * \n * @sample samples.collections.Collections.Sorting.sortMutableList\n
\n\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\n collectionsSort(this,
naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order specified with [comparator].\n
\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
\n * \n * @sample samples.collections.Collections.Sorting.sortMutableListWith\n
\n\npublic actual fun <T>
MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n if
(list.size <= 1) return\n\n val array = copyToArray(list)\n sortArrayWith(array, comparator)\n\n for (i in 0 until
array.size) {\n list[i] = array[i]\n }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int):
Array<T> {\n return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@jsName("arrayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,
startIndex: Int, endIndex: Int) {\n AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n val
rangeSize = endIndex - startIndex\n AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
rangeSize, destination.size)\n if (js("ArrayBuffer").isView(destination) &&
js("ArrayBuffer").isView(source)) {\n val subrange = source.asDynamic().subarray(startIndex, endIndex)\n
destination.asDynamic().set(subrange, destinationOffset)\n } else {\n if (source !== destination ||
destinationOffset <= startIndex) {\n for (index in 0 until rangeSize) {\n
destination[destinationOffset + index] = source[startIndex + index]\n }\n } else {\n for (index in
rangeSize - 1 downTo 0) {\n destination[destinationOffset + index] = source[startIndex + index]\n }\n }\n }\n}\n\n// no singleton map implementation in js, return map as
is\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =

```



```

*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun maxOf(a: Int, b: Int, c: Int):
Intn/n/**n * Returns the greater of three values.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic
expect inline fun maxOf(a: Long, b: Long, c: Long): Longn/n/**n * Returns the greater of three values.n * n * If
any value is `NaN`, returns `NaN`.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline
fun maxOf(a: Float, b: Float, c: Float): Floatn/n/**n * Returns the greater of three values.n * n * If any value is
`NaN`, returns `NaN`.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun maxOf(a:
Double, b: Double, c: Double): Doublen/n/**n * Returns the greater of three values according to the order
specified by the given [comparator].n * n * If there are multiple equal maximal values, returns the first of them.n
*@SinceKotlin("1.1")public fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {n return
maxOf(a, maxOf(b, c, comparator), comparator)n/n/**n * Returns the greater of two values according to the
order specified by the given [comparator].n * n * If values are equal, returns the first one.n
*@SinceKotlin("1.1")public fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {n return if
(comparator.compare(a, b) >= 0) a else bn/n/**n * Returns the greater of the given values.n * n * If there are
multiple equal maximal values, returns the first of them.n *@SinceKotlin("1.4")public expect fun <T :
Comparable<T>> maxOf(a: T, vararg other: T): Tn/n/**n * Returns the greater of the given values.n
*@SinceKotlin("1.4")public expect fun maxOf(a: Byte, vararg other: Byte): Byten/n/**n * Returns the
greater of the given values.n *@SinceKotlin("1.4")public expect fun maxOf(a: Short, vararg other: Short):
Shortn/n/**n * Returns the greater of the given values.n *@SinceKotlin("1.4")public expect fun maxOf(a:
Int, vararg other: Int): Intn/n/**n * Returns the greater of the given values.n *@SinceKotlin("1.4")public
expect fun maxOf(a: Long, vararg other: Long): Longn/n/**n * Returns the greater of the given values.n * n * If
any value is `NaN`, returns `NaN`.n *@SinceKotlin("1.4")public expect fun maxOf(a: Float, vararg other:
Float): Floatn/n/**n * Returns the greater of the given values.n * n * If any value is `NaN`, returns `NaN`.n
*@SinceKotlin("1.4")public expect fun maxOf(a: Double, vararg other: Double): Doublen/n/**n * Returns
the greater of the given values according to the order specified by the given [comparator].n * n * If there are
multiple equal maximal values, returns the first of them.n *@SinceKotlin("1.4")public fun <T> maxOf(a: T,
vararg other: T, comparator: Comparator<in T>): T {n var max = an for (e in other) if
(comparator.compare(max, e) < 0) max = en return maxn/n/**n * Returns the smaller of two values.n * n *
If values are equal, returns the first one.n *@SinceKotlin("1.1")public expect fun <T : Comparable<T>>
minOf(a: T, b: T): Tn/n/**n * Returns the smaller of two values.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Byte, b: Byte):
Byten/n/**n * Returns the smaller of two values.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Short, b: Short):
Shortn/n/**n * Returns the smaller of two values.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Int, b: Int): Intn/n/**n
* Returns the smaller of two values.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline
fun minOf(a: Long, b: Long): Longn/n/**n * Returns the smaller of two values.n * n * If either value is `NaN`,
returns `NaN`.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Float,
b: Float): Floatn/n/**n * Returns the smaller of two values.n * n * If either value is `NaN`, returns `NaN`.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Double, b: Double):
Doublen/n/**n * Returns the smaller of three values.n * n * If there are multiple equal minimal values, returns the
first of them.n *@SinceKotlin("1.1")public expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T):
Tn/n/**n * Returns the smaller of three values.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic
expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byten/n/**n * Returns the smaller of three values.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Short, b: Short, c:
Short): Shortn/n/**n * Returns the smaller of three values.n
*@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic expect inline fun minOf(a: Int, b: Int, c: Int):
Intn/n/**n * Returns the smaller of three values.n *@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic
expect inline fun minOf(a: Long, b: Long, c: Long): Longn/n/**n * Returns the smaller of three values.n * n * If

```

any value is `NaN`, returns `NaN`.  
`*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n return if (comparator.compare(a, b) <= 0) a else b\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the smaller of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n var min = a\n for (e in other) if (comparator.compare(min, e) > 0) min = e\n return min\n}\n\n"/>\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the map was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n for (element in this) {\n val result = transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n * Returns a [List] containing all key-value pairs.\n *\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n if (size == 0)\n return emptyList()\n val iterator = entries.iterator()\n if (!iterator.hasNext())\n return emptyList()\n val first = iterator.next()\n if (!iterator.hasNext())\n return listOf(first.toPair())\n val result = ArrayList<Pair<K, V>>(size)\n result.add(first.toPair())\n do {\n result.add(iterator.next().toPair())\n } while (iterator.hasNext())\n return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */`

```

@sample samples.collections.Maps.Transformations.flatMap\n *\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
entry of original map, to the given [destination].\n *\npublic inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n for (element in
this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to
the given [destination].\n *\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapToList\n *\npublic inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\n *\npublic inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n *\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each entry of the original map\n * and appends the results to the given [destination].\n *\n@npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform:
(Map.Entry<K, V>) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *\npublic inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n *
@sample samples.collections.Collections.Aggregates.any\n *\npublic fun <K, V> Map<out K, V>.any(): Boolean
{\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return false\n for (element in
this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of entries in this map.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n *\npublic inline fun <K, V> Map<out K,
V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n if (isEmpty()) return 0\n var count = 0\n for
(element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Performs the given [action] on each
entry.\n *\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action:
(Map.Entry<K, V>) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =

```

```

`1.4`, errorSince = `1.5`, hiddenSince = `1.6`)@kotlin.internal.InlineOnly\npublic inline fun <K, V, R :
Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null`
if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin(`1.4`)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there
are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin(`1.4`)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```



```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return
entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated(\\"Use maxWithOrNull instead.\",
ReplaceWith(\\"this.maxWithOrNull(comparator)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince
= \\"1.5\", hiddenSince = \\"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided
[comparator] or `null` if there are no entries.\n * ^\n@SinceKotlin(\\"1.4\")\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> Map<out K, V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>):
Map.Entry<K, V>? {\n return entries.maxWithOrNull(comparator)\n}\n\n@Deprecated(\\"Use minByOrNull
instead.\", ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\",
errorSince = \\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * ^\n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin(\\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * ^\n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * ^\n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each entry in the map.\n * ^\n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * ^\n * @throws NoSuchElementException
if the map is empty.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * ^\n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if
there are no entries.\n * ^\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * ^\n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin(\\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.minOfOrNull(selector)\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return
entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n public fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in
Map.Entry<K, V>>): Map.Entry<K, V>? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first
entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n
*\n *\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <K, V> Map<out K,
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return
entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\n public fun <K, V> Map<out K, V>.none(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\n public inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in
this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each entry and
returns the map itself afterwards.\n *\n @SinceKotlin("1.1")\n public inline fun <K, V, M : Map<out K, V>>
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns
the map itself afterwards.\n * @param [action] function that takes the index of an entry and the entry itself\n * and
performs the action on the entry.\n *\n @SinceKotlin("1.4")\n public inline fun <K, V, M : Map<out K, V>>
M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n return apply {
entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning
its entries when being iterated.\n *\n @kotlin.internal.InlineOnly\n public inline fun <K, V> Map<out K,
V>.asIterable(): Iterable<Map.Entry<K, V>> {\n return entries\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original map returning its entries when being iterated.\n *\n public fun <K, V> Map<out K,
V>.asSequence(): Sequence<Map.Entry<K, V>> {\n return entries.asSequence()\n}\n\n", /*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @npackage kotlin.text\n @n// NOTE:
THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n @n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n @n\n// 10 mappings totally\n internal fun
Char.titlecaseImpl(): String {\n val uppercase = uppercase()\n if (uppercase.length > 1) {\n return if (this ==
"\u0149") uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n }\n return
titlecaseChar().toString()\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n @npackage kotlin.text\n @n\n/**\n * Converts this character to lower case using Unicode
mapping rules of the invariant locale.\n *\n @Deprecated("Use lowercaseChar() instead.",
ReplaceWith("lowercaseChar()"))\n @DeprecatedSinceKotlin(warningSince =

```

```

\1.5\)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char =
toLowerCaseChar()\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant
locale.\n * This function performs one-to-one character mapping.\n * To support one-to-many character
mapping use the [toLowerCase] function.\n * If this character has no mapping equivalent, the character itself is
returned.\n * \n * @sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.toLowerCaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case
using Unicode mapping rules of the invariant locale.\n * This function supports one-to-many character mapping,
thus the length of the returned string can be greater than one.\n * For example, ``\u0130'.toLowerCase()` returns
``\u0069\u0307``,\n * where ``\u0130`` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character
(`\u0130`).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n * \n *
@sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()\n\n/**\n
 * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n
*/\n@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))\n@DeprecatedSinceKotlin(warningSince =
\1.5\)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =
uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n * This function performs one-to-one character mapping.\n * To support one-to-many character
mapping use the [toUpperCase] function.\n * If this character has no mapping equivalent, the character itself is
returned.\n * \n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Char.toUpperCaseChar(): Char {\n val uppercase = uppercase()\n return if (uppercase.length > 1) this else
uppercase[0]\n}\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n * This function supports one-to-many character mapping, thus the length of the returned string can be
greater than one.\n * For example, ``\uFB00'.uppercase()` returns ``\u0046\u0046``,\n * where ``\uFB00`` is the
LATIN SMALL LIGATURE FF character (`\ufb00`).\n * If this character has no upper case mapping, the result of
`toString()` of this char is returned.\n * \n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n/**\n
 * Converts this character to title case using Unicode mapping rules of the invariant locale.\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n * \n *
@sample samples.text.Chars.titlecase\n
*/\n@SinceKotlin("1.5")\npublic actual fun Char.titlecaseChar(): Char =
titlecaseCharImpl()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as
leading-surrogate code unit).\n */\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general
category of this character.\n */\n@SinceKotlin("1.5")\npublic actual val Char.category: CharCategory\n get() =
CharCategory.valueOf(getCategoryValue())\n\n/**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n */\n@SinceKotlin("1.5")\npublic actual fun Char.isDefined(): Boolean {\n if
(this < "\u0080") {\n return true\n }\n return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n/**\n * Returns `true` if this character is a letter.\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *

```

```

[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n * \n * @sample
samples.text.Chars.isLetter\n * \n * @SinceKotlin("1.5")\npublic actual fun Char.isLetter(): Boolean {\n if (this in
'a..'z' || this in 'A..'Z') {\n return true\n } \n if (this < "\u0080") {\n return false\n }\n return
isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a letter or digit.\n * \n * @see isLetter\n * @see
isDigit\n * \n * @sample samples.text.Chars.isLetterOrDigit\n * \n * @SinceKotlin("1.5")\npublic actual fun
Char.isLetterOrDigit(): Boolean {\n if (this in 'a..'z' || this in 'A..'Z' || this in '0..'9') {\n return true\n } \n
if (this < "\u0080") {\n return false\n }\n\n return isDigitImpl() || isLetterImpl()\n}\n\n/**\n * Returns `true` if
this character is a digit.\n * \n * A character is considered to be a digit if its [category] is
[CharCategory.DECIMAL_DIGIT_NUMBER].\n * \n * @sample samples.text.Chars.isDigit\n
* \n * @SinceKotlin("1.5")\npublic actual fun Char.isDigit(): Boolean {\n if (this in '0..'9') {\n return true\n
}\n if (this < "\u0080") {\n return false\n }\n return isDigitImpl()\n}\n\n/**\n * Returns `true` if this
character is upper case.\n * \n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n * or it has contributory property Other_Uppercase as defined by the
Unicode Standard.\n * \n * @sample samples.text.Chars.isUpperCase\n * \n * @SinceKotlin("1.5")\npublic actual fun
Char.isUpperCase(): Boolean {\n if (this in 'A..'Z') {\n return true\n } \n if (this < "\u0080") {\n return
false\n } \n return isUpperCaseImpl()\n}\n\n/**\n * Returns `true` if this character is lower case.\n * \n * A
character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n *
or it has contributory property Other_Lowercase as defined by the Unicode Standard.\n * \n * @sample
samples.text.Chars.isLowerCase\n * \n * @SinceKotlin("1.5")\npublic actual fun Char.isLowerCase(): Boolean {\n
if (this in 'a..'z') {\n return true\n } \n if (this < "\u0080") {\n return false\n } \n return
isLowerCaseImpl()\n}\n\n/**\n * Returns `true` if this character is a title case letter.\n * \n * A character is
considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n * \n * @sample
samples.text.Chars.isTitleCase\n * \n * @SinceKotlin("1.5")\npublic actual fun Char.isTitleCase(): Boolean {\n if
(this < "\u0080") {\n return false\n } \n return getCategoryValue() ==
CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns `true` if this character is an ISO control
character.\n * \n * A character is considered to be an ISO control character if its [category] is
[CharCategory.CONTROL],\n * meaning the Char is in the range "\u0000..\u001F" or in the range
"\u007F..\u009F".\n * \n * @sample samples.text.Chars.isISOControl\n * \n * @SinceKotlin("1.5")\npublic actual
fun Char.isISOControl(): Boolean {\n return this <= "\u001F" || this in "\u007F..\u009F"\n}\n\n/**\n *
Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character
is whitespace.\n * \n * @sample samples.text.Chars.isWhitespace\n * \n * @SinceKotlin("1.5")\npublic actual fun
Char.isWhitespace(): Boolean = isWhitespaceImpl()\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n * @package kotlin.text\n * @import kotlin.js.RegExp\n * \n * Converts the characters
in the specified array to a string.\n * \n * @SinceKotlin("1.2")\n * @Deprecated("Use CharArray.concatToString()
instead", ReplaceWith("chars.concatToString()"))\n * @DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5")\npublic actual fun String(chars: CharArray): String {\n var result = ""\n for (char in chars) {\n
result += char\n } \n return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a
string.\n * \n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset +
length` is out of [chars] array bounds.\n * \n * @SinceKotlin("1.2")\n * @Deprecated("Use
CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset +
length)"))\n * @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\npublic actual fun String(chars:
CharArray, offset: Int, length: Int): String {\n if (offset < 0 || length < 0 || chars.size - offset < length)\n
throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n var result = ""\n for
(index in offset until offset + length) {\n result += chars[index]\n } \n return result\n}\n\n/**\n *
Concatenates characters in this [CharArray] into a String.\n
* \n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun

```

```

CharArray.concatToString(): String {
 var result = ""
 for (char in this) {
 result += char
 }
 return result
}
Concatenates characters in this [CharArray] or its subrange into a String.
@param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
@param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.concatToString(startIndex: Int = 0,
endIndex: Int = this.size): String {
 AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
 var result = ""
 for (index in startIndex until endIndex) {
 result += this[index]
 }
 return result
}
Returns a [CharArray] containing characters of this string.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
String.toCharArray(): CharArray {
 return CharArray(length) { get(it) }
}
Returns a [CharArray]
containing characters of this string or its substring.
@param startIndex the beginning (inclusive) of the
substring, 0 by default.
@param endIndex the end (exclusive) of the substring, length of this string by default.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length
of this string.
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int
= this.length): CharArray {
 AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
 return
CharArray(endIndex - startIndex) { get(startIndex + it) }
}
Decodes a string from the bytes in UTF-8
encoding in this array.
Malformed byte sequences are replaced by the replacement char '\uFFFD'.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
ByteArray.decodeToString(): String {
 return decodeUtf8(this, 0, size, false)
}
Decodes a string from
the bytes in UTF-8 encoding in this array or its subrange.
@param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.
@param endIndex the end (exclusive) of the subrange to decode, size of this
array by default.
@param throwOnInvalidSequence specifies whether to throw an exception on malformed byte
sequence or replace it by the replacement char '\uFFFD'.
@throws IndexOutOfBoundsException if
[startIndex] is less than zero or [endIndex] is greater than the size of this array.
@throws
IllegalArgumentException if [startIndex] is greater than [endIndex].
@throws CharacterCodingException if the
byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.decodeToString(
 startIndex: Int = 0,
endIndex: Int = this.size,
 throwOnInvalidSequence: Boolean = false): String {
 AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
 return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)
}
Encodes this string to an array of bytes in UTF-8 encoding.
Any
malformed char sequence is replaced by the replacement byte sequence.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
String.encodeToByteArray(): ByteArray {
 return encodeUtf8(this, 0, length, false)
}
Encodes this
string or its substring to an array of bytes in UTF-8 encoding.
@param startIndex the beginning (inclusive)
of the substring to encode, 0 by default.
@param endIndex the end (exclusive) of the substring to encode, length
of this string by default.
@param throwOnInvalidSequence specifies whether to throw an exception on
malformed char sequence or replace.
@throws IndexOutOfBoundsException if [startIndex] is less than zero
or [endIndex] is greater than the length of this string.
@throws IllegalArgumentException if [startIndex] is
greater than [endIndex].
@throws CharacterCodingException if this string contains malformed char sequence
and [throwOnInvalidSequence] is true.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.encodeToByteArray(
 startIndex: Int = 0,

```

```

endIndex: Int = this.length,\n throwOnInvalidSequence: Boolean = false\n): ByteArray {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return encodeUtf8(this, startIndex, endIndex,\n throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the\n default locale.\n */\n@Deprecated("Use uppercase() instead.")\nReplaceWith("uppercase()")\n@DeprecatedSinceKotlin(warningSince =\n "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String =\n asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping\n rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n * @sample\n samples.text.Strings.uppercase\n\n*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n actual inline fun String.uppercase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string\n converted to lower case using the rules of the default locale.\n */\n * @Deprecated("Use lowercase() instead.")\n ReplaceWith("lowercase()")\n@DeprecatedSinceKotlin(warningSince =\n "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String =\n asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode\n mapping rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character\n mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n * @sample\n samples.text.Strings.lowercase\n\n*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n actual inline fun String.lowercase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal\n actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,\n fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal\n actual inline fun String.nativeLastIndexOf(str: String,\n fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal\n inline fun\n String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,\n position)\n\n@kotlin.internal.InlineOnly\ninternal\n inline fun\n String.nativeEndsWith(s: String): Boolean =\n asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic\n actual inline fun\n String.substring(startIndex: Int):\n String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic\n actual inline fun\n String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,\n endIndex)\n\n@Deprecated("Use String.plus() instead")\n ReplaceWith("this +\n str")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic\n inline fun\n String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated("Use Regex.findAll() instead or\n invoke matches() on String dynamically:\n this.asDynamic().match(regex)")\n@DeprecatedSinceKotlin(warningSince =\n "1.6")\n@kotlin.internal.InlineOnly\npublic\n inline fun\n String.match(regex: String): Array<String>? =\n asDynamic().match(regex)\n\n//native\n public fun\n String.trim(): String\n\n//TODO: String.replace to implement\n effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal\n inline fun\n String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,\n replacement)\n\n/**\n * Compares two strings lexicographically, optionally ignoring case differences.\n */\n * If\n [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.\n */\n\n*/\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\n actual fun\n String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n if (ignoreCase) {\n val n1 =\n this.length\n val n2 = other.length\n val min = minOf(n1, n2)\n if (min == 0) return n1 - n2\n for\n (index in 0 until min) {\n var thisChar = this[index]\n var otherChar = other[index]\n if\n (thisChar != otherChar) {\n thisChar = thisChar.uppercaseChar()\n otherChar =\n otherChar.uppercaseChar()\n if (thisChar != otherChar) {\n thisChar =\n thisChar.lowercaseChar()\n otherChar = otherChar.lowercaseChar()\n }\n }\n if (thisChar !=\n otherChar) {\n return thisChar.compareTo(otherChar)\n }\n }\n }\n }\n}

```

```

} else { return compareTo(other) } } }
}

/** Returns `true` if the contents
of this char sequence are equal to the contents of the specified [other],
i.e. both char sequences contain the same
number of the same characters in the same order.
@sample samples.text.Strings.contentEquals
*/
@SinceKotlin("1.5")
public actual infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean =
contentEqualsImpl(other)

/** Returns `true` if the contents of this char sequence are equal to the contents of
the specified [other], optionally ignoring case difference.
@param ignoreCase `true` to ignore character case
when comparing contents.
@sample samples.text.Strings.contentEquals
*/
@SinceKotlin("1.5")
public actual fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean {
return if
(ignoreCase)
this.contentEqualsIgnoreCaseImpl(other)
else
this.contentEqualsImpl(other)
}

private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String>
{ a, b -> a.compareTo(b, ignoreCase = true) }

@SinceKotlin("1.2")
public actual val
String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>
get() =
STRING_CASE_INSENSITIVE_ORDER

"/

/* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CharsKt")
package kotlin.text

/**
Returns the numeric value of the decimal digit that this Char represents.
Throws an exception if this Char is
not a valid decimal digit.
A Char is considered to represent a decimal digit if [isDigit] is true for the Char.
In this case, the Unicode decimal digit value of the character is returned.
@sample
samples.text.Chars.digitToInt

@WasExperimental(ExperimentalStdlibApi::class)
public fun Char.digitToInt(): Int
{
return digitOf(this, 10).also {
if (it < 0) throw IllegalArgumentException("Char $this is not a decimal
digit")
}
}

/** Returns the numeric value of the digit that this Char represents in the specified [radix].
Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the specified
[radix].
A Char is considered to represent a digit in the specified [radix] if at least one of the following is
true:
- [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the
specified [radix]. In this case the decimal digit value is returned.
- The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.
- The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.
- The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is
returned.
- The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less
than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.
@sample
samples.text.Chars.digitToInt

@WasExperimental(ExperimentalStdlibApi::class)
public fun Char.digitToInt(radix:
Int): Int {
return digitToIntOrNull(radix) ?: throw IllegalArgumentException("Char $this is not a digit in the
given radix=$radix")
}

/** Returns the numeric value of the decimal digit that this Char represents, or
`null` if this Char is not a valid decimal digit.
A Char is considered to represent a decimal digit if [isDigit] is
true for the Char.
In this case, the Unicode decimal digit value of the character is returned.
@sample
samples.text.Chars.digitToIntOrNull

@WasExperimental(ExperimentalStdlibApi::class)
public fun
Char.digitToIntOrNull(): Int? {
return digitOf(this, 10).takeIf { it >= 0 }
}

/** Returns the numeric
value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the
specified [radix].
Throws an exception if the [radix] is not in the range `2..36`.
A Char is considered to
represent a digit in the specified [radix] if at least one of the following is true:
- [isDigit] is `true` for the Char
and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit
value is returned.
- The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix
+ 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.
- The Char is one of the lowercase Latin

```

letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.

`\n * - The Char` is one of the fullwidth Latin capital letters "\uFF21" through "\uFF3A" and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.

`\n * - The Char` is one of the fullwidth Latin small letters "\uFF41" through "\uFF5A" and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.

```
\n * \n * @sample samples.text.Chars.digitToIntOrNull\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun
Char.digitToIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n return digitOf(this, radix).takeIf { it >= 0
}\n }\n\n\n\n\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the
range `0..9`.\n\n * If this value is in `0..9`, the decimal digit Char with code `0'.code + this` is returned.\n\n *
@sample samples.text.Chars.digitToChar\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun Int.digitToChar(): Char
{\n if (this in 0..9) {\n return '0' + this\n }\n throw IllegalArgumentException("\nInt $this is not a decimal
digit")\n }\n\n\n\n\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws
an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0 until radix`.\n\n * If this
value is less than `10`, the decimal digit Char with code `0'.code + this` is returned.\n * Otherwise, the uppercase
Latin letter with code `A'.code + this - 10` is returned.\n\n * @sample samples.text.Chars.digitToChar\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun Int.digitToChar(radix:
Int): Char {\n if (radix !in 2..36) {\n throw IllegalArgumentException("Invalid radix: $radix. Valid radix
values are in range 2..36")\n }\n if (this < 0 || this >= radix) {\n throw IllegalArgumentException("Digit
$this does not represent a valid digit in radix $radix")\n }\n return if (this < 10) {\n '0' + this\n } else {\n
'A' + this - 10\n }\n }\n\n\n\n\n * Converts this character to lower case using Unicode mapping rules of the
invariant locale.\n\n * @Deprecated("Use lowercaseChar() instead.")
ReplaceWith("lowercaseChar()")\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public expect fun
Char.toLowerCase(): Char\n\n\n\n\n * Converts this character to lower case using Unicode mapping rules of the
invariant locale.\n\n * This function performs one-to-one character mapping.\n\n * To support one-to-many
character mapping use the [lowercase] function.\n\n * If this character has no mapping equivalent, the character itself
is returned.\n\n * @sample samples.text.Chars.lowercase\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
Char.lowercaseChar(): Char\n\n\n\n\n * Converts this character to lower case using Unicode mapping rules of the
invariant locale.\n\n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\n\n * For example, `"\u0130".lowercase()` returns `"\u0069\u0307"`,\n\n * where
`"\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\u0130`).\n\n * If this character
has no lower case mapping, the result of `toString()` of this char is returned.\n\n * @sample
samples.text.Chars.lowercase\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
Char.lowercase(): String\n\n\n\n\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n\n * @Deprecated("Use uppercaseChar() instead.")
ReplaceWith("uppercaseChar()")\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public expect fun
Char.toUpperCase(): Char\n\n\n\n\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n\n * This function performs one-to-one character mapping.\n\n * To support one-to-many
character mapping use the [uppercase] function.\n\n * If this character has no mapping equivalent, the character itself
is returned.\n\n * @sample samples.text.Chars.uppercase\n
*\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
Char.uppercaseChar(): Char\n\n\n\n\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n\n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\n\n * For example, `"\uFB00".uppercase()` returns `"\u0046\u0046"`,\n\n * where
`"\uFB00` is the LATIN SMALL LIGATURE FF character (`\ufffd\u0046\u0046`).\n\n * If this character has no upper
case mapping, the result of `toString()` of this char is returned.\n\n * @sample samples.text.Chars.uppercase\n
```



```

*\/n@SinceKotlin("1.5")\/n@WasExperimental(ExperimentalStdlibApi::class)\/npublic expect fun
Char.uppercase(): String\/n\/n**\/n * Converts this character to title case using Unicode mapping rules of the
invariant locale.\/n *\/n * This function performs one-to-one character mapping.\/n * To support one-to-many
character mapping use the [titlecase] function.\/n * If this character has no mapping equivalent, the result of calling
[uppercaseChar] is returned.\/n *\/n * @sample samples.text.Chars.titlecase\/n *\/n@SinceKotlin("1.5")\/npublic
expect fun Char.titlecaseChar(): Char\/n\/n**\/n * Converts this character to title case using Unicode mapping rules of
the invariant locale.\/n *\/n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\/n * For example, ``\uFB00'.titlecase()`` returns ``\u0046\u0066``,\/n * where
``\uFB00`` is the LATIN SMALL LIGATURE FF character (``\ufffd\uuffd\uuffd``).\/n * If this character has no title
case mapping, the result of [uppercase] is returned instead.\/n *\/n * @sample samples.text.Chars.titlecase\/n
*\/n@SinceKotlin("1.5")\/npublic fun Char.titlecase(): String = titlecaseImpl()\/n\/n**\/n * Concatenates this Char
and a String.\/n *\/n * @sample samples.text.Chars.plus\/n *\/n@kotlin.internal.InlineOnly\/npublic inline operator fun
Char.plus(other: String): String = this.toString() + other\/n\/n**\/n * Returns `true` if this character is equal to the
[other] character, optionally ignoring character case.\/n *\/n * Two characters are considered equal ignoring case if
`Char.uppercaseChar().lowercaseChar()` on each character produces the same result.\/n *\/n * @param ignoreCase
`true` to ignore character case when comparing characters. By default `false`.\/n * @sample
samples.text.Chars.equals\/n *\/npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\/n if
(this == other) return true\/n if (!ignoreCase) return false\/n\/n val thisUpper = this.uppercaseChar()\/n val
otherUpper = other.uppercaseChar()\/n return thisUpper == otherUpper || thisUpper.lowercaseChar() ==
otherUpper.lowercaseChar()\/n}\/n\/n**\/n * Returns `true` if this character is a Unicode surrogate code unit.\/n
*\/npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\/n\/n**\/n
* Returns the Unicode general category of this character.\/n *\/n@SinceKotlin("1.5")\/npublic expect val
Char.category: CharCategory\/n\/n**\/n * Returns `true` if this character (Unicode code point) is defined in
Unicode.\/n *\/n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\/n *\/n@SinceKotlin("1.5")\/npublic expect fun Char.isDefined():
Boolean\/n\/n**\/n * Returns `true` if this character is a letter.\/n *\/n * A character is considered to be a letter if its
[category] is [CharCategory.UPPERCASE_LETTER],\/n * [CharCategory.LOWERCASE_LETTER],
[CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or
[CharCategory.OTHER_LETTER].\/n *\/n * @sample samples.text.Chars.isLetter\/n
*\/n@SinceKotlin("1.5")\/npublic expect fun Char.isLetter(): Boolean\/n\/n**\/n * Returns `true` if this character is a
letter or digit.\/n *\/n * @see isLetter\/n * @see isDigit\/n *\/n * @sample samples.text.Chars.isLetterOrDigit\/n
*\/n@SinceKotlin("1.5")\/npublic expect fun Char.isLetterOrDigit(): Boolean\/n\/n**\/n * Returns `true` if this
character is a digit.\/n *\/n * A character is considered to be a digit if its [category] is
[CharCategory.DECIMAL_DIGIT_NUMBER].\/n *\/n * @sample samples.text.Chars.isDigit\/n
*\/n@SinceKotlin("1.5")\/npublic expect fun Char.isDigit(): Boolean\/n\/n**\/n * Returns `true` if this character is
upper case.\/n *\/n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\/n * or it has contributory property Other_Uppercase as defined by the
Unicode Standard.\/n *\/n * @sample samples.text.Chars.isUpperCase\/n *\/n@SinceKotlin("1.5")\/npublic expect
fun Char.isUpperCase(): Boolean\/n\/n**\/n * Returns `true` if this character is lower case.\/n *\/n * A character is
considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\/n * or it has
contributory property Other_Lowercase as defined by the Unicode Standard.\/n *\/n * @sample
samples.text.Chars.isLowerCase\/n *\/n@SinceKotlin("1.5")\/npublic expect fun Char.isLowerCase():
Boolean\/n\/n**\/n * Returns `true` if this character is a title case letter.\/n *\/n * A character is considered to be a title
case letter if its [category] is [CharCategory.TITLECASE_LETTER].\/n *\/n * @sample
samples.text.Chars.isTitleCase\/n *\/n@SinceKotlin("1.5")\/npublic expect fun Char.isTitleCase(): Boolean\/n\/n**\/n
* Returns `true` if this character is an ISO control character.\/n *\/n * A character is considered to be an ISO control
character if its [category] is [CharCategory.CONTROL],\/n * meaning the Char is in the range ``\u0000..\u001F``
or in the range ``\u007F..\u009F``.\/n *\/n * @sample samples.text.Chars.isISOControl\/n

```

```

*\/n@SinceKotlin("1.5")\npublic expect fun Char.isISOControl(): Boolean\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n */\npublic expect fun Char.isWhitespace(): Boolean\n", "\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Creates a Char with the specified [code], or throws an exception if the [code] is out of `Char.MIN_VALUE.code..Char.MAX_VALUE.code`. \n *\n * If the program that calls this function is written in a way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Char(code: Int): Char {\n if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n throw IllegalArgumentException("Invalid Char code: $code")\n }\n return code.toChar()\n}\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n *\n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n *\n * @sample samples.text.Chars.code\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline val Char.code: Int get() = this.toInt()\n", "\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n *\n * @public operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at index $index.") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is

```

```

terminal.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the\n
sequence is empty.\n * \n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n val\n
iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n
return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws\n
[NoSuchElementException] if no such element is found.\n * \n * The operation is _terminal_.\n */\npublic inline fun\n
<T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return\n
element\n throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in\n
iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * The operation\n
is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>\n
Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw\n
NoSuchElementException("No element of the sequence was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in\n
iteration order,\n * or `null` if no non-null value was produced.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>\n
Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result =\n
transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n * \n * The operation is _terminal_.\n */\npublic fun\n
<T> Sequence<T>.firstOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n
return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was\n
not found.\n * \n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T)\n
-> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n * \n * The operation is\n
terminal.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n var\n
index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n return\n
index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given\n
[predicate], or -1 if the sequence does not contain such element.\n * \n * The operation is _terminal_.\n */\npublic\n
inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this)\n
{\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -\n
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not\n
contain such element.\n * \n * The operation is _terminal_.\n */\npublic inline fun <T>\n
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in\n
this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n
}\n return lastIndex\n}\n\n/**\n * Returns the last element.\n * \n * The operation is _terminal_.\n * \n * @throws\n
NoSuchElementException if the sequence is empty.\n * \n * @sample\n
samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.last(): T {\n val iterator =\n
iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n var last =\n
iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n * Returns the last\n
element matching the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @throws\n
NoSuchElementException if no such element is found.\n * \n * @sample\n
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) ->\n
Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n if (predicate(element))\n
{\n last = element\n found = true\n }\n }\n if (!found) throw\n
NoSuchElementException("Sequence contains no element matching the predicate.")\n}

```

```

@Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the
sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n var lastIndex = -1\n var
index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex =
index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is
empty.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return
last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n */\npublic
inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n var last: T? = null\n for (element in
this) {\n if (predicate(element)) {\n last = element\n }\n }\n return last\n}\n\n/**\n * Returns the
single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation
is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n val iterator = iterator()\n if
(iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n val single =
iterator.next()\n if (iterator.hasNext())\n throw IllegalArgumentException("Sequence has more than one
element.")\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws
exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline
fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for
(element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Sequence
contains more than one matching element.")\n single = element\n found = true\n }\n }\n if
(!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\n return single as T\n}\n\n/**\n * Returns single element, or `null` if the
sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T>
Sequence<T>.singleOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val
single = iterator.next()\n if (iterator.hasNext())\n return null\n return single\n}\n\n/**\n * Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) ->
Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element))\n {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return
null\n return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int):
Sequence<T> {\n require(n >= 0) {"Requested element count $n is less than zero." }\n return when {\n n
== 0 -> this\n this is DropTakeSequence -> this.drop(n)\n else -> DropSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n
*\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)
-> Boolean): Sequence<T> {\n return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence
containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate:
(T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence
containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n
return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) })), {

```

```

it.value })\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param
 [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter
R.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n *\npublic inline fun <reified R>
Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n
@Suppress("UNCHECKED_CAST")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is
intermediate.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun
<reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in
this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing
all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Collections.Filtering.filter\n *\npublic fun <T> Sequence<T>.filterNot(predicate: (T)
-> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence
containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic fun <T : Any> Sequence<T?>.filterNotNull():
Sequence<T> {\n @Suppress("UNCHECKED_CAST")\n return filterNot { it == null } as
Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation
is _terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C :
MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if
(element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element))
destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n *
The operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.take(n: Int):
Sequence<T> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n return when {\n n
== 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation
is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return
TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted
according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n *\npublic fun <T :
Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun
iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence
sorted according to natural sort order of the value returned by specified [selector] function.\n *\n * The sort is
stable. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation

```

is `_intermediate_` and `_stateful_`. \n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy \n \* \n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareBy(selector)) \n } \n / \n \* \n \* Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n \* The operation is `_intermediate_` and `_stateful_`. \n \* \n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareByDescending(selector)) \n } \n / \n \* \n \* Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n \* The operation is `_intermediate_` and `_stateful_`. \n \* \n public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> { \n return sortedWith(reverseOrder()) \n } \n / \n \* \n \* Returns a sequence that yields elements of this sequence sorted according to the specified [comparator]. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n \* The operation is `_intermediate_` and `_stateful_`. \n \* \n public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> { \n return object : Sequence<T> { \n override fun iterator(): Iterator<T> { \n val sortedList = this@sortedWith.toList() \n sortedList.sortWith(comparator) \n return sortedList.iterator() \n } \n } \n } \n / \n \* \n \* Returns a [Map] containing key-value pairs provided by [transform] function \n \* applied to elements of the given sequence. \n \* \n \* If any of two pairs would have the same key the last one gets added to the map. \n \* \n \* The returned map preserves the entry iteration order of the original sequence. \n \* \n \* The operation is `_terminal_`. \n \* \n \* @sample samples.collections.Collections.Transformations.associate \n \* \n public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> { \n return associateTo(LinkedHashMap<K, V>(), transform) \n } \n / \n \* \n \* Returns a [Map] containing the elements from the given sequence indexed by the key \n \* returned from [keySelector] function applied to each element. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* The returned map preserves the entry iteration order of the original sequence. \n \* \n \* The operation is `_terminal_`. \n \* \n \* @sample samples.collections.Collections.Transformations.associateBy \n \* \n public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> { \n return associateByTo(LinkedHashMap<K, T>(), keySelector) \n } \n / \n \* \n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* The returned map preserves the entry iteration order of the original sequence. \n \* \n \* The operation is `_terminal_`. \n \* \n \* @sample samples.collections.Collections.Transformations.associateByWithValueTransform \n \* \n public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> { \n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform) \n } \n / \n \* \n \* Populates and returns the [destination] mutable map with key-value pairs, \n \* where key is provided by the [keySelector] function applied to each element of the given sequence \n \* and value is the element itself. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* The operation is `_terminal_`. \n \* \n \* @sample samples.collections.Collections.Transformations.associateByTo \n \* \n public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M { \n for (element in this) { \n destination.put(keySelector(element), element) \n } \n return destination \n } \n / \n \* \n \* Populates and returns the [destination] mutable map with key-value pairs, \n \* where key is provided by the [keySelector] function and \n \* and value is provided by the [valueTransform] function applied to elements of the given sequence. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* The operation is `_terminal_`. \n \* \n \* @sample samples.collections.Collections.Transformations.associateByToWithValueTransform \n \* \n public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M { \n for (element in this) { \n destination.put(keySelector(element),

```

valueTransform(element))\n } \n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n
* If any of two pairs would have the same key the last one gets added to the map.\n * \n * The operation is
terminal.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun
<T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>):
M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n *
Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the
[valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin("1.3")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V):
Map<K, V> {\n val result = LinkedHashMap<K, V>()\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin("1.3")\npublic inline fun
<K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n * The operation is
terminal.\n * \n * @public fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n
for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of
all elements.\n * \n * The operation is _terminal_.\n * \n * @public fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n
return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n * \n * The operation is
terminal.\n * \n * @public fun <T> Sequence<T>.toList(): List<T> {\n return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this sequence.\n * \n * The operation is _terminal_.\n * \n * @public fun <T> Sequence<T>.toMutableList():
MutableList<T> {\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original sequence.\n * \n * The operation is
terminal.\n * \n * @public fun <T> Sequence<T>.toSet(): Set<T> {\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements
from results of [transform] function being invoked on each element of original sequence.\n * \n * The operation is
intermediate and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of original sequence.\n * \n * The operation is _intermediate_ and
stateless.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence.\n * \n * The operation
is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {\n return
flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements

```

yielded from results of [transform] function being invoked on each element\n \* and its index in the original sequence.\n \*\n \* The operation is \_intermediate\_ and \_stateless\_.\n \*\n \* @sample samples.collections.Collections.Transformations.flatMapIndexed\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequence")\n public fun <T, R> Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n return flatMapIndexed(this, transform, Sequence<R>::iterator)\n }\n /\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original sequence, to the given [destination].\n \*\n \* The operation is \_terminal\_.\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n @kotlin.internal.InlineOnly\n public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return destination\n }\n /\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original sequence, to the given [destination].\n \*\n \* The operation is \_terminal\_.\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n @kotlin.internal.InlineOnly\n public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return destination\n }\n /\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n \*\n \* The operation is \_terminal\_.\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIterableTo")\n public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n }\n /\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n \*\n \* The operation is \_terminal\_.\n \*\n public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n }\n /\*\*\n \* Groups elements of the original sequence by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \*\n \* The returned map preserves the entry iteration order of the keys produced from the original sequence.\n \*\n \* The operation is \_terminal\_.\n \*\n \* @sample samples.collections.Collections.Transformations.groupBy\n \*\n public inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n }\n /\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original sequence\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \*\n \* The returned map preserves the entry iteration order of the keys produced from the original sequence.\n \*\n \* The operation is \_terminal\_.\n \*\n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \*\n public inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n /\*\*\n \* Groups elements of the original sequence by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \*\n \* @return The [destination] map.\n \*\n \* The operation is \_terminal\_.\n \*\n \* @sample



```

samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <T, K, M : MutableMap<in K,
MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this)
{\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied
to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n
*\n * @return The [destination] map.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is
intermediate and _stateless_.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> =
this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n *
Returns a sequence containing the results of applying the given [transform] function\n * to each element in the
original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.map\n *\npublic fun <T, R> Sequence<T>.map(transform: (T) ->
R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing
the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n
*\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\npublic fun <T,
R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return
TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing only the non-null
results of applying the given [transform] function\n * to each element and its index in the original sequence.\n
*\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\npublic fun <T, R
: Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return
TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function
to each element and its index in the original sequence\n * and appends only the non-null results to the given
[destination].\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n *\npublic inline fun
<T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index:
Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n
return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original
sequence\n * and appends the results to the given [destination].\n *\n * @param [transform] function that takes the
index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n
*\n * The operation is _terminal_.\n *\npublic inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in
this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a
sequence containing only the non-null results of applying the given [transform] function\n * to each
element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.mapNotNull\n *\npublic fun <T, R : Any>
Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this,
transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original
sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n

```



```

accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator,
element)\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is
terminal.\n *\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element.\n *\n * @param [action] function that takes the index of an element and the element itself\n *\n * and performs the
action on the element.\n *\n * The operation is _terminal_.\n *\n */\npublic inline fun <T>
Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this)
action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) ->
R): T? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n *\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var
maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <
v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return
maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *\n * applied to
each element in the sequence.\n *\n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n *\n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is
terminal.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n *\n * applied to each element in the sequence.\n *\n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * @throws NoSuchElementException
if the sequence is empty.\n *\n * The operation is _terminal_.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n *\n * applied to each element in the sequence.\n *\n * @throws
NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw

```

```

NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T> Sequence<T>.maxOrNull(selector:\n * (T) -> Double): Double? {\n * val iterator = iterator()\n * if (!iterator.hasNext()) return null\n * var maxValue =\n * selector(iterator.next())\n * while (iterator.hasNext()) {\n * val v = selector(iterator.next())\n * maxValue =\n * maxOf(maxValue, v)\n * }\n * return maxValue\n * }\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T> Sequence<T>.maxOrNull(selector:\n * (T) -> Float): Float? {\n * val iterator = iterator()\n * if (!iterator.hasNext()) return null\n * var maxValue =\n * selector(iterator.next())\n * while (iterator.hasNext()) {\n * val v = selector(iterator.next())\n * maxValue =\n * maxOf(maxValue, v)\n * }\n * return maxValue\n * }\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * The\n * operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T, R : Comparable<R>>\n * Sequence<T>.maxOrNull(selector: (T) -> R): R? {\n * val iterator = iterator()\n * if (!iterator.hasNext()) return\n * null\n * var maxValue = selector(iterator.next())\n * while (iterator.hasNext()) {\n * val v =\n * selector(iterator.next())\n * if (maxValue < v) {\n * maxValue = v\n * }\n * }\n * return\n * maxValue\n * }\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the sequence.\n * \n * @throws\n * NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T, R>\n * Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n * val iterator = iterator()\n * if\n * (!iterator.hasNext()) throw NoSuchElementException()\n * var maxValue = selector(iterator.next())\n * while\n * (iterator.hasNext()) {\n * val v = selector(iterator.next())\n * if (comparator.compare(maxValue, v) < 0) {\n * maxValue = v\n * }\n * }\n * return maxValue\n * }\n\n/**\n * Returns the largest value according to the provided\n * [comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null`\n * if there are no elements.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution\n * ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T, R>\n * Sequence<T>.maxOfOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n * val iterator =\n * iterator()\n * if (!iterator.hasNext()) return null\n * var maxValue = selector(iterator.next())\n * while\n * (iterator.hasNext()) {\n * val v = selector(iterator.next())\n * if (comparator.compare(maxValue, v) < 0) {\n * maxValue = v\n * }\n * }\n * return maxValue\n * }\n\n/**\n * Returns the largest element or `null` if there are no\n * elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * public fun Sequence<Double>.maxOrNull(): Double? {\n * val iterator = iterator()\n * if (!iterator.hasNext()) return null\n * var max = iterator.next()\n * while (iterator.hasNext()) {\n * val e =\n * iterator.next()\n * max = maxOf(max, e)\n * }\n * return max\n * }\n\n/**\n * Returns the largest element or `null` if\n * there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n *\n * @SinceKotlin("1.4")\n * public fun Sequence<Float>.maxOrNull(): Float? {\n * val iterator = iterator()\n * if\n * (!iterator.hasNext()) return null\n * var max = iterator.next()\n * while (iterator.hasNext()) {\n * val e =

```

```

iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max
= e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead."),
ReplaceWith("this.maxWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) ->
R): T? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var
minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue >
v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is
terminal.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all

```

values produced by [selector] function\n \* applied to each element in the sequence.\n \* \n \* @throws NoSuchElementException if the sequence is empty.\n \* \n \* The operation is \_terminal\_.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nSequence<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:\n(T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =\n minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:\n(T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =\n minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nSequence<T>.minOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =\n selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the sequence.\n * \n * @throws\n * NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nSequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if\n (!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while\n (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the\n * provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence\n * or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nSequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =\n iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while\n (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are\n * no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if
```

```

(iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n * @SinceKotlin("1.4")\npublic fun Sequence<Float>.minOrNull(): Float? {\n val iterator = iterator()\n if
(iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * The operation is _terminal_.\n * \n * @SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min
= e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*\n * @SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n * \n * The operation is _terminal_.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n * \n * @SinceKotlin("1.4")\npublic fun <T> Sequence<T>.none(): Boolean {\n
return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n * \n *
@SinceKotlin("1.4")\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action]
on each element of the original sequence as they pass through it.\n * \n * The operation is _intermediate_ and
stateless.\n * \n * @SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T>
{\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Returns a sequence which performs the given
[action] on each element of the original sequence as they pass through it.\n * \n * @param [action] function that takes
the index of an element and the element itself\n * and performs the action on the element.\n * \n * The operation is
intermediate and _stateless_.\n * \n * @SinceKotlin("1.4")\npublic fun <T> Sequence<T>.onEachIndexed(action:
(index: Int, T) -> Unit): Sequence<T> {\n return mapIndexed { index, element ->\n action(index, element)\n
element\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Throws an exception if this sequence is empty. If
the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and
calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \n * @SinceKotlin("1.4")\npublic inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext())
throw UnsupportedOperationException("Empty sequence can't be reduced.")\n var accumulator: S =
iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n *
Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \n * @SinceKotlin("1.4")\npublic inline fun <S, T : S>
Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n var index =

```

```

1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n return sequence {\n yield(initial)\n var accumulator = initial\n for (element in this@runningFold) {\n accumulator = operation(accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\npublic fun <T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return sequence {\n yield(initial)\n var index = 0\n var accumulator = initial\n for (element in this@runningFoldIndexed) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S>

```





in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \*\n \* The operation is `_terminal_`.\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("sumOfInt")\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \*\n \* The operation is `_terminal_`.\n \*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("sumOfLong")\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \*\n \* The operation is `_terminal_`.\n \*\n @SinceKotlin("1.5")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("sumOfUInt")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \*\n \* The operation is `_terminal_`.\n \*\n @SinceKotlin("1.5")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolutionByLambdaReturnType\n @kotlin.jvm.JvmName("sumOfULong")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n \*\n \* The operation is `_intermediate_` and `_stateless_`.\n \*\n public fun <T : Any> Sequence<T?>.requireNonNulls(): Sequence<T> {\n return map { it ?: throw IllegalArgumentException("null element found in \$this.") }\n}\n\n/\*\*\n \* Splits this sequence into a sequence of lists each not exceeding the given [size].\n \*\n \* The last list in the resulting sequence may have fewer elements than the given [size].\n \*\n \* @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n \*\n \* The operation is `_intermediate_` and `_stateful_`.\n \*\n @sample samples.collections.Collections.Transformations.chunked\n \*\n @SinceKotlin("1.2")\n public fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/\*\*\n \* Splits this sequence into several lists each not exceeding the given [size]\n \* and applies the given [transform] function to an each.\n \*\n \* @return sequence of results of the [transform] applied to an each list.\n \*\n \* Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n \*\n \* You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n \*\n \* The last list may have fewer elements than the given [size].\n \*\n \* @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n \*\n \* The operation is `_intermediate_` and `_stateful_`.\n \*\n @sample samples.text.Strings.chunkedTransform\n \*\n @SinceKotlin("1.2")\n public fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/\*\*\n \* Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n \*\n \* The operation is `_intermediate_` and `_stateless_`.\n \*\n public operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n var removed = false\n return this@minus.filter { if (!removed && it == element) {\n removed = true; false } else true }.iterator()\n }\n }\n}\n\n/\*\*\n \* Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n \*\n \* Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n \* the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n \*\n \* Before Kotlin

1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations. On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true. The operation is \_intermediate\_ and \_stateful\_.

```

public operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
 if (elements.isEmpty()) return this
 return object: Sequence<T> {
 override fun iterator(): Iterator<T> {
 val other = elements.convertToSetForSetOperation()
 return this@minus.filterNot { it in other }.iterator()
 }
 }
}

```

Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection. Note that the source sequence and the collection being subtracted are iterated only when an iterator is requested from the resulting sequence. Changing any of them between successive calls to iterator may affect the result. Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations. On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true. The operation is \_intermediate\_ and \_stateful\_.

```

public operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {
 return object: Sequence<T> {
 override fun iterator(): Iterator<T> {
 val other = elements.convertToSetForSetOperation()
 if (other.isEmpty()) return this@minus.iterator()
 else return this@minus.filterNot { it in other }.iterator()
 }
 }
}

```

Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence. Note that the source sequence and the sequence being subtracted are iterated only when an iterator is requested from the resulting sequence. Changing any of them between successive calls to iterator may affect the result. The operation is \_intermediate\_ for this sequence and \_terminal\_ and \_stateful\_ for the [elements] sequence. Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations. On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true.

```

public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
 return object: Sequence<T> {
 override fun iterator(): Iterator<T> {
 val other = elements.convertToSetForSetOperation()
 if (other.isEmpty()) return this@minus.iterator()
 else return this@minus.filterNot { it in other }.iterator()
 }
 }
}

```

Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element]. The operation is \_intermediate\_ and \_stateless\_.

```

@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
 return minus(element)
}

```

Splits the original sequence into pair of lists, where first list contains elements for which [predicate] yielded true, while second list contains elements for which [predicate] yielded false. The operation is \_terminal\_.

```

@sample.samples.collections.Sequences.Transformations.partition
public inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
 val first = ArrayList<T>()
 val second = ArrayList<T>()
 for (element in this) {
 if (predicate(element)) first.add(element)
 } else {
 second.add(element)
 }
 return Pair(first, second)
}

```

Returns a sequence containing all elements of the original sequence and then the given [element]. The operation is \_intermediate\_ and \_stateless\_.

```

public operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {
 return sequenceOf(this, sequenceOf(element)).flatten()
}

```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array. Note that the source sequence and the array being added are iterated only when an iterator is requested from the resulting sequence. Changing any of them between successive calls to iterator may affect the result. The operation is \_intermediate\_ and \_stateless\_.

```

public operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {
 return this.plus(elements.asList())
}

```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection. Note that the source sequence and the collection being added

are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_ and _stateless_`.

```
public operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {
 return sequenceOf(this, elements.asSequence()).flatten()
}
```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.

Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_ and _stateless_`.

```
public operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {
 return sequenceOf(this, elements).flatten()
}
```

Returns a sequence containing all elements of the original sequence and then the given [element].

The operation is `_intermediate_ and _stateless_`.

```
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {
 return plus(element)
}
```

Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list.

Several last lists may have fewer elements than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.takeWindows

```
@SinceKotlin("1.2")
public fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {
 return windowedSequence(size, step, partialWindows, reuseBuffer = false)
}
```

Returns a sequence of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this sequence with the given [step].

Note that the list passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it.

Several last lists may have fewer elements than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.averageWindows

```
@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {
 return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)
}
```

Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.

The resulting sequence ends as soon as the shortest input sequence ends.

The operation is `_intermediate_ and _stateless_`.

@sample samples.collections.Sequences.Transformations.zip

```
public infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {
 return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
}
```

Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index using the provided [transform] function applied to each pair of elements.

The resulting sequence ends as soon as the shortest input sequence ends.

The operation is `_intermediate_ and _stateless_`.

@sample samples.collections.Sequences.Transformations.zipWithTransform

```
public fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
 return MergingSequence(this, other, transform)
}
```

Returns a sequence of pairs of each two adjacent elements in this sequence.

The returned sequence is empty if this sequence contains less than two elements.

The operation is `_intermediate_ and _stateless_`.

@sample samples.collections.Collections.Transformations.zipWithNext

```
@SinceKotlin("1.2")
public fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {
 return zipWithNext { a, b -> a to b }
}
```

Returns a sequence containing the results of applying the given [transform] function to an each pair of two

adjacent elements in this sequence.

`zipWithNextToFindDeltas`

`@sample`

```

samples.collections.Collections.Transformations.zipWithNextToFindDeltas
fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {
 return sequence result@
 {
 val iterator = iterator()
 if (!iterator.hasNext()) return@result
 var current = iterator.next()
 while (iterator.hasNext()) {
 val next = iterator.next()
 yield(transform(current, next))
 current = next
 }
 }
}

```

`zipWithNext`

`Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.`

`If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").`

`The operation is _terminal_.`

`@sample`

```

samples.collections.Collections.Transformations.joinTo
fun <T, A : Appendable>
Sequence<T>.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "\\", postfix:
CharSequence = "\\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A
{
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 buffer.appendElement(element, transform)
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

```

`Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.`

`If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").`

`The operation is _terminal_.`

`@sample`

```

samples.collections.Collections.Transformations.joinToString
fun <T>
Sequence<T>.joinToString(separator: CharSequence = ",", prefix: CharSequence = "\\", postfix: CharSequence =
"\\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
 return
 joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

```

`Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.`

`public fun <T> Sequence<T>.asIterable(): Iterable<T> { return Iterable { this.iterator() }`

`Returns this sequence as a [Sequence].`

`@kotlin.internal.InlineOnly`

```

public inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{
 return this
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
 var sum:
Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
 var sum: Double
= 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfLong")
public fun
Sequence<Long>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum /
count
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
 var sum:
Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

```

`Returns an average value of elements in the sequence.`

`The operation is _terminal_.`

```

@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
 var sum:

```

```

Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n }\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Sequence<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Sequence<Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Sequence<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Sequence<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Sequence<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n *\n * The returned set preserves the element iteration order of the original set.\n */\n\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size))\n var removed = false\n return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n *\n * The returned set preserves the element iteration order of the original set.\n *\n * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n *\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\n\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n *\n * The returned set preserves the element iteration order of the original set.\n *\n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n *\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\n\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n val other = elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toSet()\n if (other is Set)\n return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n val result = LinkedHashSet<T>(this)\n result.removeAll(other)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n *\n * The returned set preserves the element iteration order of the original set.\n *\n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n *\n * On JVM, you can enable this behavior back

```

```

with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.
public operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {
 val result = LinkedHashSet<T>(this)
 result.removeAll(elements)
 return result
}
Returns a set containing all elements of the original set except the given [element].
The returned set preserves the element iteration order of the original set.
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.minusElement(element: T): Set<T> {
 return minus(element)
}
Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.
The returned set preserves the element iteration order of the original set.
public operator fun <T> Set<T>.plus(element: T): Set<T> {
 val result = LinkedHashSet<T>(mapCapacity(size + 1))
 result.addAll(this)
 result.add(element)
 return result
}
Returns a set containing all elements of the original set and the given [elements] array, which aren't already in this set.
The returned set preserves the element iteration order of the original set.
public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {
 val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))
 result.addAll(this)
 result.addAll(elements)
 return result
}
Returns a set containing all elements of the original set and the given [elements] collection, which aren't already in this set.
The returned set preserves the element iteration order of the original set.
public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {
 val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))
 result.addAll(this)
 result.addAll(elements)
 return result
}
Returns a set containing all elements of the original set and the given [elements] sequence, which aren't already in this set.
The returned set preserves the element iteration order of the original set.
public operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {
 val result = LinkedHashSet<T>(mapCapacity(this.size * 2))
 result.addAll(this)
 result.addAll(elements)
 return result
}
Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.
The returned set preserves the element iteration order of the original set.
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.plusElement(element: T): Set<T> {
 return plus(element)
}
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlin.text
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
@sample samples.collections.Collections.Elements.elementAt
public expect fun CharSequence.elementAt(index: Int): Char
Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.
@sample samples.collections.Collections.Elements.elementAtOrElse
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
@sample samples.collections.Collections.Elements.elementAtOrNull
@kotlin.internal.InlineOnly
public inline fun CharSequence.elementAtOrNull(index: Int): Char? {
 return this.getOrNull(index)
}
Returns the first character matching the given [predicate], or `null` if no such character was found.
@sample samples.collections.Collections.Elements.find
@kotlin.internal.InlineOnly
public inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {
 return firstOrNull(predicate)
}
Returns the last character matching the given [predicate], or `null` if no such character was found.
@sample samples.collections.Collections.Elements.findLast
@kotlin.internal.InlineOnly
public inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {
 return lastOrNull(predicate)
}
Returns first character.
@throws [NoSuchElementException] if the char sequence is empty.
public fun CharSequence.first(): Char {
 if (isEmpty())
 throw NoSuchElementException("Char sequence is

```

```

empty.}\n return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws
[NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate:
(Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Char sequence contains no character matching the predicate.}\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to characters of this char sequence in
iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>
CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the char sequence was transformed to a non-null value.}\n}\n\n/**\n *
Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in
iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>
CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n for (element in this) {\n val result =
transform(element)\n if (result != null) {\n return result\n }\n }\n return null}\n}\n\n/**\n *
Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull():
Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given
[predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -
> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null}\n}\n\n/**\n *
Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrNull(index:
Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of
this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun
CharSequence.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else
null}\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does
not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n
for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -
1}\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does
not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n
for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -
1}\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence is
empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.}\n return this[lastIndex]\n}\n\n/**\n * Returns the
last character matching the given [predicate].\n * \n * @throws NoSuchElementException if no such character is
found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun CharSequence.last(predicate: (Char) ->
Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Char sequence contains no
character matching the predicate.}\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is
empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.lastOrNull(): Char? {\n return if
(isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null`
if no such character was found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun
CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null}\n}\n\n/**\n * Returns a
random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is
empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char
{\n return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified

```



```

source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
*\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.")\n return get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness, or `null` if this char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n
*\npublic fun CharSequence.single(): Char {\n return when (length) {\n 0 -> throw NoSuchElementException("Char sequence is empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Char sequence has more than one element.")\n }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n
*\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n
*\npublic fun CharSequence.singleOrNull(): Char? {\n return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n
*\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample samples.text.Strings.drop\n
*\npublic fun CharSequence.drop(n: Int): CharSequence {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample samples.text.Strings.drop\n
*\npublic fun String.drop(n: Int): String {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample samples.text.Strings.drop\n
*\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
*\n * @sample samples.text.Strings.drop\n
*\npublic fun String.dropLast(n: Int): String {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n
*\n * @sample samples.text.Strings.drop\n
*\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return subSequence(0, index + 1)\n return ""\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n
*\n * @sample samples.text.Strings.drop\n
*\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return substring(0, index + 1)\n return ""\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n
*\n * @sample samples.text.Strings.drop\n
*\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in

```



```

CharSequence).slice(indices).toString()\n\n/**\n * Returns a subsequence of this char sequence containing the
first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
CharSequence.take(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n
 return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n]
characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n require(n
>= 0) { \"Requested character count $n is less than zero.\" }\n return substring(0,
n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n]
characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
CharSequence.takeLast(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than
zero.\" }\n val length = length\n return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n *
Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
String.takeLast(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val
length = length\n return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this
char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample
samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return
subSequence(index + 1, length)\n }\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string
containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic
inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0) {\n
 if (!predicate(this[index])) {\n return substring(index + 1)\n }\n }\n return this\n}\n\n/**\n * Returns
a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n *
@sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean):
CharSequence {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return subSequence(0,
index)\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that
satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun
String.takeWhile(predicate: (Char) -> Boolean): String {\n for (index in 0 until length)\n if
(!predicate(get(index))) {\n return substring(0, index)\n }\n return this\n}\n\n/**\n * Returns a char
sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n return
StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n return (this as
CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by
[transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the
same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original char sequence.\n * \n * @sample samples.text.Strings.associate\n */\npublic inline fun <K, V>
CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the
key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateBy\n */\npublic inline
fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity =
mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have

```

the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original char sequence.\n \* \n \* @sample

```

samples.text.Strings.associateByWithValueTransform\n *\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity
= mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n
* and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector]
the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n
for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the
given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one
gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char)
-> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateTo\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n
destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each
character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateWith\n *\n@SinceKotlin("1.3")\npublic inline fun <V>
CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char,
V>(mapCapacity(length).coerceAtMost(128)).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided by the
[valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the
former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n
*\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all characters to
the given [destination] collection.\n *\npublic fun <C : MutableCollection<in Char>>
CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n *\npublic fun CharSequence.toHashSet():
HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length).coerceAtMost(128)))\n}\n\n/**\n
* Returns a [List] containing all characters.\n *\npublic fun CharSequence.toList(): List<Char> {\n return when
(length) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n
* Returns a new [MutableList] filled with all characters of this char sequence.\n *\npublic fun
CharSequence.toMutableList(): MutableList<Char> {\n return toCollection(ArrayList<Char>(length))\n}\n\n/**\n
* Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original
char sequence.\n *\npublic fun CharSequence.toSet(): Set<Char> {\n return when (length) {\n 0 -> emptySet()\n
1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(length).coerceAtMost(128)))\n
}\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on

```

each character of original char sequence.

```

\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n * \n public inline fun <R>
CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each character\n * and its index in the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterable")\n @kotlin.internal.InlineOnly\n public
inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n\n * Appends all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence, to the given
[destination].\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n @kotlin.internal.InlineOnly\n public
c inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:
Int, Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n\n * Appends all elements yielded from
results of [transform] function being invoked on each character of original char sequence, to the given
[destination].\n * \n public inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n\n * Groups characters of the original char sequence by
the key returned by the given [keySelector] function\n * applied to each character and returns a map where each
group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n public inline fun <K>
CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n public inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n\n * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n
\n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n\n *
Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n *
by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination]
map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n *
\n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-

```

fold operations using the specified [keySelector] function to extract a key from each character.

```

@sample
samples.collections.Grouping.groupingByEachCount
@SinceKotlin("1.1")
public inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
 return object :
 Grouping<Char, K> {
 override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
 override fun keyOf(element: Char): K = keySelector(element)
 }
}

```

Returns a list containing the results of applying the given [transform] function to each character in the original char sequence.

```

@sample
samples.text.Strings.map
public inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> {
 return mapTo(ArrayList<R>(length), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each character and its index in the original char sequence.

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R> CharSequence.mapIndexed(transform: (index:
Int, Char) -> R): List<R> {
 return mapIndexedTo(ArrayList<R>(length), transform)
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each character and its index in the original char sequence.

```

@param [transform] function that takes the index of a character and the character
itself
and returns the result of the transform applied to the character.
public inline fun <R : Any>
CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {
 return
 mapIndexedNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each character and its index in the original char sequence and appends only the non-null results to the given [destination].

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R : Any, C :
MutableCollection<in R>>
CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) ->
R?): C {
 forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
 return destination
}

```

Applies the given [transform] function to each character and its index in the original char sequence and appends the results to the given [destination].

```

@param [transform] function that takes the
index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R, C : MutableCollection<in R>>
CharSequence.mapIndexedTo(destination: C, transform:
(index: Int, Char) -> R): C {
 var index = 0
 for (item in this)
 destination.add(transform(index++,
item))
 return destination
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each character in the original char sequence.

```

@sample
samples.collections.Collections.Transformations.mapNotNull
public inline fun <R : Any>
CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
 return mapNotNullTo(ArrayList<R>(),
transform)
}

```

Applies the given [transform] function to each character in the original char sequence and appends only the non-null results to the given [destination].

```

public inline fun <R : Any, C :
MutableCollection<in R>>
CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {
 forEach { element -> transform(element)?.let { destination.add(it) } }
 return destination
}

```

Applies the given [transform] function to each character of the original char sequence and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>>
CharSequence.mapTo(destination: C,
transform: (Char) -> R): C {
 for (item in this)
 destination.add(transform(item))
 return destination
}

```

Returns a lazy [Iterable] that wraps each character of the original char sequence into an [IndexedValue] containing the index of that character and the character itself.

```

public fun
CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
 return IndexingIterable { iterator() }
}

```

Returns `true` if all characters match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all
public inline fun CharSequence.all(predicate: (Char) ->
Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

```

Returns `true` if char sequence has at least one character.

```

@sample
samples.collections.Collections.Aggregates.any
public fun CharSequence.any(): Boolean {
 return !isEmpty()
}

```

Returns `true` if at least one character matches the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.anyWithPredicate
public inline fun CharSequence.any(predicate:

```

```

(Char) -> Boolean): Boolean {
 for (element in this) if (predicate(element)) return true
 return false
}

Returns the length of this char sequence.
@kotlin.internal.InlineOnly
public inline fun CharSequence.count(): Int {
 return length
}

Returns the number of characters matching the given [predicate].
public inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {
 var count = 0
 for (element in this) if (predicate(element)) ++count
 return count
}

Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each character.
@param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
public inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {
 var accumulator = initial
 for (element in this) accumulator = operation(accumulator, element)
 return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each character with its index in the original char sequence.
@param [operation] function that takes the index of a character, current accumulator value
and the character itself, and calculates the next accumulator value.
public inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this) accumulator = operation(index++, accumulator, element)
 return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from right to left
to each character and current accumulator value.
@param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from right to left
to each character with its index in the original char sequence and current accumulator value.
@param [operation] function that takes the index of a character, the character itself
and current accumulator value, and calculates the next accumulator value.
public inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

Performs the given [action] on each character.
public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
 for (element in this) action(element)
}

Performs the given [action] on each character, providing sequential index with the character.
@param [action] function that takes the index of a character and the character itself
and performs the action on the character.
public inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

@Deprecated("Use maxOrNull instead.", ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun CharSequence.max(): Char? {
 return maxOrNull()
}

@Deprecated("Use maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {
 return maxByOrNull(selector)
}

Returns the first character yielding the largest value of the given function or `null` if there are no characters.
@sample
samples.collections.Collections.Aggregates.maxByOrNull
@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {
 if (isEmpty()) return null
 var maxElem = this[0]
 val lastIndex = this.lastIndex
 if (lastIndex == 0) return maxElem
 var maxValue = selector(maxElem)
 for (i in 1..lastIndex) {
 val e = this[i]
 val v = selector(e)
 if (maxValue < v) {
 maxElem = e
 maxValue = v
 }
 }
 return maxElem
}

Returns the largest value among all values produced by [selector] function
applied to each character in the char sequence.
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
@throws

```

NoSuchElementException if the char sequence is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->\nDouble): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->\nFloat): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i\n in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nCharSequence.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no\n * characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:\n(Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in\n 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no\n * characters.\n * \n * If any of values produced by\n * [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:\n(Char) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in\n 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no\n * characters.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nCharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided\n * [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator:\nComparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each character in the char sequence or `null` if there are no characters.\n */
```



```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\n*\n@SinceKotlin("1.4")\npublic fun
CharSequence.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull
instead.", ReplaceWith("this.maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun CharSequence.maxWith(comparator: Comparator<in
Char>): Char? {\n return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest
value according to the provided [comparator] or `null` if there are no characters.\n */\n*\n@SinceKotlin("1.4")\npublic fun CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char?
{\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharSequence.min(): Char? {\n return minOrNull()\n}\n\n@Deprecated("Use
minByOrNull instead.", ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
CharSequence.minBy(selector: (Char) -> R): Char? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the
first character yielding the smallest value of the given function or `null` if there are no characters.\n */\n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n*\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharSequence.minByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each character in the char sequence.\n */\n * @throws
NoSuchElementException if any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * @throws
NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var min = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n min = minOf(min, v)\n }\n return
min\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n */\n * @throws NoSuchElementException if any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var min = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n min = minOf(min, v)\n }\n return
min\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n */\n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
min = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (min > v) {\n
min = v\n }\n }\n return min\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no

```

characters. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```

*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Double): Double? {\/n if (isEmpty()) return null\/n var minValue = selector(this[0])\/n for (i in
1..lastIndex) {\/n val v = selector(this[i])\/n minValue = minOf(minValue, v)\/n }\/n return
minValue\/n}\/n\/n**\/n * Returns the smallest value among all values produced by [selector] function\/n * applied to
each character in the char sequence or `null` if there are no characters.\/n *\/n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Float): Float? {\/n if (isEmpty()) return null\/n var minValue = selector(this[0])\/n for (i in 1..lastIndex)
{\/n val v = selector(this[i])\/n minValue = minOf(minValue, v)\/n }\/n return minValue\/n}\/n\/n**\/n *
Returns the smallest value among all values produced by [selector] function\/n * applied to each character in the char
sequence or `null` if there are no characters.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <R : Comparable<R>>
CharSequence.minOfOrNull(selector: (Char) -> R): R? {\/n if (isEmpty()) return null\/n var minValue =
selector(this[0])\/n for (i in 1..lastIndex) {\/n val v = selector(this[i])\/n if (minValue > v) {\/n
minValue = v\/n }\/n }\/n return minValue\/n}\/n\/n**\/n * Returns the smallest value according to the provided
[comparator]\/n * among all values produced by [selector] function applied to each character in the char sequence.\/n
*\/n * @throws NoSuchElementException if the char sequence is empty.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\/n if (isEmpty()) throw NoSuchElementException()\/n var
minValue = selector(this[0])\/n for (i in 1..lastIndex) {\/n val v = selector(this[i])\/n if
(comparator.compare(minValue, v) > 0) {\/n minValue = v\/n }\/n }\/n return minValue\/n}\/n\/n**\/n *
Returns the smallest value according to the provided [comparator]\/n * among all values produced by [selector]
function applied to each character in the char sequence or `null` if there are no characters.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\/n if (isEmpty())
return null\/n var minValue = selector(this[0])\/n for (i in 1..lastIndex) {\/n val v = selector(this[i])\/n if
(comparator.compare(minValue, v) > 0) {\/n minValue = v\/n }\/n }\/n return minValue\/n}\/n\/n**\/n *
Returns the smallest character or `null` if there are no characters.\/n
*\/n@SinceKotlin("1.4")\/npublic fun
CharSequence.minOrNull(): Char? {\/n if (isEmpty()) return null\/n var min = this[0]\/n for (i in 1..lastIndex) {\/n
val e = this[i]\/n if (min > e) min = e\/n }\/n return min\/n}\/n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))\/n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\/npublic fun CharSequence.minWith(comparator: Comparator<in
Char>): Char? {\/n return minWithOrNull(comparator)\/n}\/n\/n**\/n * Returns the first character having the smallest
value according to the provided [comparator] or `null` if there are no characters.\/n
*\/n@SinceKotlin("1.4")\/npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char?
{\/n if (isEmpty()) return null\/n var min = this[0]\/n for (i in 1..lastIndex) {\/n val e = this[i]\/n if
(comparator.compare(min, e) > 0) min = e\/n }\/n return min\/n}\/n\/n**\/n * Returns `true` if the char sequence has
no characters.\/n *\/n * @sample samples.collections.Collections.Aggregates.none\/n *\/npublic fun
CharSequence.none(): Boolean {\/n return isEmpty()\/n}\/n\/n**\/n * Returns `true` if no characters match the given
[predicate].\/n *\/n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\/n *\/npublic inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {\/n for (element in this) if (predicate(element)) return
false\/n return true\/n}\/n\/n**\/n * Performs the given [action] on each character and returns the char sequence itself

```

```

afterwards.\n *^@SinceKotlin("1.1")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each
character, providing sequential index with the character,\n * and returns the char sequence itself afterwards.\n *
@param [action] function that takes the index of a character and the character itself\n * and performs the action on
the character.\n *^@SinceKotlin("1.4")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index:
Int, Char) -> Unit): S {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with
the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n *
\n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a
character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator
value and a character,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator value.\n * \n * Throws an exception if this char
sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0)\n throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = get(index-)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to

```

left to each character with its index in the original char sequence and current accumulator value. Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value.

Returns `null` if the char sequence is empty.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRightOrNull

```

@SinceKotlin("1.4")
public inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {
 var index = lastIndex
 if (index < 0) return null
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character and current accumulator value.

Returns `null` if the char sequence is empty.

@param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRightOrNull

```

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
 var index = lastIndex
 if (index < 0) return null
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningFold

```

@SinceKotlin("1.4")
public inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(length + 1).apply { add(initial) }
 var accumulator = initial
 for (element in this) {
 accumulator = operation(accumulator, element)
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningFold

```

@SinceKotlin("1.4")
public inline fun <R> CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(length + 1).apply { add(initial) }
 var accumulator = initial
 for (index in indices) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with the first character of this char sequence.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")
public inline fun

```

```

CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {
 if (isEmpty()) return
 emptyList()
 var accumulator = this[0]
 val result = ArrayList<Char>(length).apply { add(accumulator) }
 for (index in 1 until length) {
 accumulator = operation(accumulator, this[index])
 }
 result.add(accumulator)
}

```

`runningReduce` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
public inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<Char>(length).apply {
 add(accumulator)
 }
 for (index in 1 until length) {
 accumulator = operation(index, accumulator,
 this[index])
 result.add(accumulator)
 }
 return result
}

```

`runningReduceIndexed` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
 return runningFold(initial,
 operation)
}

```

`scan` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
 return
 runningFoldIndexed(initial, operation)
}

```

`scanIndexed` Returns the sum of all values produced by [selector] function applied to each character in the char sequence. @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)")) @DeprecatedSinceKotlin(warningSince = "1.5")

```

public inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {
 var sum: Int = 0
 for (element in this) {
 sum +=
 selector(element)
 }
 return sum
}

```

`sumBy` Returns the sum of all values produced by [selector] function applied to each character in the char sequence. @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)")) @DeprecatedSinceKotlin(warningSince = "1.5")

```

public inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {
 var sum: Double = 0.0
 for (element in
 this) {
 sum +=
 selector(element)
 }
 return sum
}

```

`sumByDouble` Returns the sum of all values produced by [selector] function applied to each character in the char sequence. @sample

```

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in
 this) {
 sum +=
 selector(element)
 }
 return sum
}

```

`sumOf` Returns the sum of all values produced by [selector] function applied to each character in the char sequence. @sample

```

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {
 var sum: Int = 0.toInt()
 for (element in
 this) {
 sum
 +=
 selector(element)
 }
 return sum
}

```

`sumOf` Returns the sum of all values produced by [selector]

function applied to each character in the char sequence.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharSequence.sumOf(selector: (Char) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each character in the char sequence.
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return\nsum\n}\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char\n sequence.
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedType\ns::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
```

```
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * The last string in the resulting list may have fewer characters than the given [size].\n * @param size the number\n of elements to take in each string, must be positive and can be greater than the number of elements in this char\n sequence.
```

```
*\n * @sample samples.text.Strings.chunked\n *\n@SinceKotlin("1.2")\npublic fun\nCharSequence.chunked(size: Int): List<String> {\n return windowed(size, size, partialWindows =\ntrue)\n}\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and\n applies the given [transform] function to an each.\n * @return list of results of the [transform] applied to an\n each char sequence.\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid\n only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot\n of it.\n * The last char sequence may have fewer characters than the given [size].\n * @param size the number\n of elements to take in each char sequence, must be positive and can be greater than the number of elements in this\n char sequence.
```

```
*\n * @sample samples.text.Strings.chunkedTransform\n *\n@SinceKotlin("1.2")\npublic fun\n<R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size,\npartialWindows = true, transform = transform)\n}\n/**\n * Splits this char sequence into a sequence of strings\n each not exceeding the given [size].\n * The last string in the resulting sequence may have fewer characters than\n the given [size].\n * @param size the number of elements to take in each string, must be positive and can be\n greater than the number of elements in this char sequence.\n * @sample
```

```
samples.collections.Collections.Transformations.chunked\n *\n@SinceKotlin("1.2")\npublic fun\nCharSequence.chunkedSequence(size: Int): Sequence<String> {\n return chunkedSequence(size) { it.toString()\n}\n}\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and\n applies the given [transform] function to an each.\n * @return sequence of results of the [transform] applied to\n an each char sequence.\n * Note that the char sequence passed to the [transform] function is ephemeral and is\n valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a\n snapshot of it.\n * The last char sequence may have fewer characters than the given [size].\n * @param size the\n number of elements to take in each char sequence, must be positive and can be greater than the number of elements\n in this char sequence.\n * @sample samples.text.Strings.chunkedTransformToSequence\n
```

```
*\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -\n> R): Sequence<R> {\n return windowedSequence(size, size, partialWindows = true, transform =\ntransform)\n}\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char\n sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains\n characters for which [predicate] yielded `false`.\n * @sample samples.text.Strings.partition\n *\n@SinceKotlin("1.2")\npublic inline\nfun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first =
```

```

StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first,\n second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for\n * which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded\n * `false`.\n *\n * @sample samples.text.Strings.partition\n */\npublic inline fun String.partition(predicate: (Char) ->\n Boolean): Pair<String, String> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in\n this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list\n * of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where\n * each\n * snapshot is a string.\n *\n * Several last strings may have fewer characters than the given [size].\n *\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n *\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the\n * window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep\n * partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n *\n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun\n CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n return\n windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given\n * [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n *\n * Note that the char sequence passed to the [transform]\n * function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some\n * way, unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given\n * [size].\n *\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char\n * sequence.\n * @param size the number of elements to take in each window\n * @param step the number of\n * elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls\n * whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't\n * be preserved\n *\n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows:\n Boolean = false, transform: (CharSequence) -> R): List<R> {\n checkWindowSizeStep(size, step)\n val thisSize\n = this.length\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result =\n ArrayList<R>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val end = index + size\n val coercedEnd = if (end < 0 || end > thisSize) {\n if (partialWindows) thisSize else break\n } else end\n result.add(transform(subSequence(index, coercedEnd)))\n index += step\n }\n return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the\n * given [step], where each\n * snapshot is a string.\n *\n * Several last strings may have fewer characters than the\n * given [size].\n *\n * Both [size] and [step] must be positive and can be greater than the number of elements in this\n * char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of\n * elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls\n * whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't\n * be preserved\n *\n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows:\n Boolean = false): Sequence<String> {\n return windowedSequence(size, step, partialWindows) { it.toString()\n }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char\n * sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given\n * [step].\n *\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside\n * that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n *\n * Both [size] and [step] must be\n * positive and can be greater than the number of elements in this char sequence.\n * @param size the number of\n * elements to take in each window\n * @param step the number of elements to move the window forward by on an

```

```

each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n *^\n@SinceKotlin("1.2")\npublic fun <R>
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R> {\n checkWindowSizeStep(size, step)\n val windows = (if
(partialWindows) indices else 0 until length - size + 1) step step\n return windows.asSequence().map { index ->\n
 val end = index + size\n val coercedEnd = if (end < 0 || end > length) length else end\n
transform(subSequence(index, coercedEnd))\n }\n}\n\n/**\n * Returns a list of pairs built from the characters of
`this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char
sequence.\n * \n * @sample samples.text.Strings.zip\n *^\npublic infix fun CharSequence.zip(other: CharSequence):
List<Pair<Char, Char>> {\n return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built
from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform]
function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n *
@sample samples.text.Strings.zipWithTransform\n *^\npublic inline fun <V> CharSequence.zip(other:
CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n val length = minOf(this.length, other.length)\n
val list = ArrayList<V>(length)\n for (i in 0 until length) {\n list.add(transform(this[i], other[i]))\n }\n
return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The
returned list is empty if this char sequence contains less than two characters.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n *^\n@SinceKotlin("1.2")\npublic fun
CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent
characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two
characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n
*^\n@SinceKotlin("1.2")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R):
List<R> {\n val size = length - 1\n if (size < 1) return emptyList()\n val result = ArrayList<R>(size)\n
for (index in 0 until size) {\n result.add(transform(this[index], this[index + 1]))\n }\n return result\n}\n\n/**\n *
Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n
*^\npublic fun CharSequence.asIterable(): Iterable<Char> {\n if (this is String && isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence
returning its characters when being iterated.\n *^\npublic fun CharSequence.asSequence(): Sequence<Char> {\n if
(this is String && isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n"/\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*^\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\nimport kotlin.contracts.contract\nimport kotlin.jvm.JvmName\n\n/**\n * Returns a copy of this string
converted to upper case using the rules of the default locale.\n *^\n@Deprecated("Use uppercase() instead.",
ReplaceWith("uppercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toUpperCase(): String\n\n/**\n * Returns a copy of this string converted to upper case using Unicode
mapping rules of the invariant locale.\n * \n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n * \n *
@sample samples.text.Strings.uppercase\n
*^\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.uppercase(): String\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the
default locale.\n *^\n@Deprecated("Use lowercase() instead.",
ReplaceWith("lowercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toLowerCase(): String\n\n/**\n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale.\n * \n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n * \n *

```



```

@sample samples.text.Strings.lowercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.lowercase(): String\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case
of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with
the special title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n
*\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase())
it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.capitalize(): String\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample
samples.text.Strings.decapitalize\n
*\n@Deprecated("Use replaceFirstChar instead.",
ReplaceWith("replaceFirstChar { it.lowercase() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic
expect fun String.decapitalize(): String\n\n/**\n * Returns a sub sequence of this char sequence having leading and
trailing characters matching the [predicate] removed.\n *\n@public inline fun CharSequence.trim(predicate: (Char) ->
Boolean): CharSequence {\n var startIndex = 0\n var endIndex = length - 1\n var startFound = false\n\n while (startIndex <= endIndex) {\n val index = if (!startFound) startIndex else endIndex\n val match =
predicate(this[index])\n\n if (!startFound) {\n if (!match)\n startFound = true\n else\n startIndex += 1\n } else {\n if (!match)\n break\n else\n endIndex -= 1\n }\n }\n\n return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and
trailing characters matching the [predicate] removed.\n *\n@public inline fun String.trim(predicate: (Char) ->
Boolean): String =\n (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this
char sequence having leading characters matching the [predicate] removed.\n *\n@public inline fun
CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if
(!predicate(this[index]))\n return subSequence(index, length)\n\n return ""\n}\n\n/**\n * Returns a string
having leading characters matching the [predicate] removed.\n *\n@public inline fun String.trimStart(predicate:
(Char) -> Boolean): String =\n (this as CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub
sequence of this char sequence having trailing characters matching the [predicate] removed.\n *\n@public inline fun
CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if
(!predicate(this[index]))\n return subSequence(0, index + 1)\n\n return ""\n}\n\n/**\n * Returns a string
having trailing characters matching the [predicate] removed.\n *\n@public inline fun String.trimEnd(predicate: (Char)
-> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of
this char sequence having leading and trailing characters from the [chars] array removed.\n *\n@public fun
CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having
leading and trailing characters from the [chars] array removed.\n *\n@public fun String.trim(vararg chars: Char):
String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from
the [chars] array removed.\n *\n@public fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart {
it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n *\n@public fun
String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this
char sequence having trailing characters from the [chars] array removed.\n *\n@public fun CharSequence.trimEnd(vararg
chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the
[chars] array removed.\n *\n@public fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n
 * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n *\n@public fun
CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and
trailing whitespace removed.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as
CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace
removed.\n *\n@public fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n *
Returns a string having leading whitespace removed.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this

```

```

char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified character or space.\n * @param length the desired
string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.
Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char
sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):
CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less than
zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *
@param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n(this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this
char sequence padded at the end\n * to the specified [length] with the specified character or space.\n * @param
length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char
= ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less
than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n sb.append(this)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *
@param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n(this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is
either `null` or empty.\n * @sample samples.text.Strings.stringOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n * @sample
samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():
Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n * @sample
samples.text.Strings.stringIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//\npublic fun
String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence
is not empty and contains some characters except of whitespace characters.\n * @sample
samples.text.Strings.stringIsNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either
`null` or empty or consists solely of whitespace characters.\n * @sample
samples.text.Strings.stringOrNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrBlank(): Boolean {\n contract {\n returns(false) implies (this@isNullOrBlank !=
null)\n }\n\n return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n

```

```

*\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n private var index = 0\n public override fun nextChar(): Char = get(index++)\n public override fun hasNext(): Boolean = index < length\n}\n\n/** Returns the string if it is not `null`, or the empty string otherwise.
*\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n/** Returns this char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample samples.text.Strings.stringIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n if (isEmpty()) defaultValue() else this\n\n/** Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling [defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\n if (isBlank()) defaultValue() else this\n\n/** Returns the range of valid character indices for this char sequence.\n *\npublic val CharSequence.indices: IntRange\n get() = 0..length - 1\n\n/** Returns the index of the last character in the char sequence or -1 if it is empty.\n *\npublic val CharSequence.lastIndex: Int\n get() = this.length - 1\n\n/** Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n *\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n return index in 0..length - 2\n && this[index].isHighSurrogate()\n && this[index + 1].isLowSurrogate()\n}\n\n/** Returns a substring specified by the given [range] of indices.\n *\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/** Returns a subsequence of this char sequence specified by the given [range] of indices.\n *\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\n\n/** Returns a subsequence of this char sequence.\n *\n * This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n
*\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n\n/** Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\n\n/** Returns a substring of chars at indices from the specified [range] of this char sequence.\n *\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\n\n/** Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/** Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/** Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/** Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/** Returns a substring before the last occurrence of [delimiter].\n * If the string

```

does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(0, index)
}

```

Returns a substring before the last occurrence of [delimiter].

If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(0, index)
}

```

Returns a substring after the last occurrence of [delimiter].

If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

```

Returns a substring after the last occurrence of [delimiter].

If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

```

Returns a char sequence with content of this char sequence where its part at the given range is replaced with the [replacement] char sequence.

@param startIndex the index of the first character to be replaced.

@param endIndex the index of the first character after the replacement to keep in the string.

```

public fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {
 if (endIndex < startIndex) throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
 val sb = StringBuilder()
 sb.appendRange(this, 0, startIndex)
 sb.append(replacement)
 sb.appendRange(this, endIndex, length)
 return sb
}

```

Replaces the part of the string at the given range with the [replacement] char sequence.

@param startIndex the index of the first character to be replaced.

@param endIndex the index of the first character after the replacement to keep in the string.

```

@kotlin.internal.InlineOnly
public inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =
 (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()

```

Returns a char sequence with content of this char sequence where its part at the given [range] is replaced with the [replacement] char sequence.

\* The end index of the [range] is included in the part to be replaced.

```

public fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =
 replaceRange(range.start, range.endInclusive + 1, replacement)

```

Replace the part of string at the given [range] with the [replacement] string.

\* The end index of the [range] is included in the part to be replaced.

```

@kotlin.internal.InlineOnly
public inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =
 (this as CharSequence).replaceRange(range, replacement).toString()

```

Returns a char sequence with content of this char sequence where its part at the given range is removed.

\* @param startIndex the index of the first character to be removed.

\* @param endIndex the index of the first character after the removed part to keep in the string.

\* [endIndex] is not included in the removed part.

```

public fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {
 if (endIndex < startIndex) throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
 if (endIndex == startIndex) return this.subSequence(0, length)
 val sb = StringBuilder(length - (endIndex - startIndex))
 sb.appendRange(this, 0, startIndex)
 sb.appendRange(this, endIndex, length)
 return sb
}

```

Removes the part of a string at a given range.

@param startIndex the index of the first character to be removed.

@param endIndex the index of the first character after the removed part to keep in the string.

\* [endIndex] is not included in the removed part.

```

@kotlin.internal.InlineOnly
public inline fun String.removeRange(startIndex: Int, endIndex: Int): String =
 (this as CharSequence).removeRange(startIndex, endIndex).toString()

```

Returns a char sequence with content of this char sequence where its part at the given [range] is removed.

\* The end index of the [range] is included in the removed part.

```

public fun CharSequence.removeRange(range: IntRange): CharSequence =
 removeRange(range.start, range.endInclusive + 1)

```

Removes the part of a string at the given [range].

\* The end index of the [range] is included in the removed part.

```

@kotlin.internal.InlineOnly
public inline fun

```

String.removeRange(range: IntRange): String = \n (this as CharSequence).removeRange(range).toString()\n\n/\*\*\n \* If this char sequence starts with the given [prefix], returns a new char sequence\n \* with the prefix removed.\n \* Otherwise, returns a new char sequence with the same characters.\n \*/\npublic fun

CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n if (startsWith(prefix)) {\n return subSequence(prefix.length, length)\n }\n return subSequence(0, length)\n}\n\n/\*\*\n \* If this string starts with the given [prefix], returns a copy of this string\n \* with the prefix removed. Otherwise, returns this string.\n \*/\npublic fun String.removePrefix(prefix: CharSequence): String {\n if (startsWith(prefix)) {\n return substring(prefix.length)\n }\n return this\n}\n\n/\*\*\n \* If this char sequence ends with the given [suffix], returns a new char sequence\n \* with the suffix removed. Otherwise, returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n if (endsWith(suffix)) {\n return subSequence(0, length - suffix.length)\n }\n return subSequence(0, length)\n}\n\n/\*\*\n \* If this string ends with the given [suffix], returns a copy of this string\n \* with the suffix removed. Otherwise, returns this string.\n \*/\npublic fun String.removeSuffix(suffix: CharSequence): String {\n if (endsWith(suffix)) {\n return substring(0, length - suffix.length)\n }\n return this\n}\n\n/\*\*\n \* When this char sequence starts with the given [prefix] and ends with the given [suffix],\n \* returns a new char sequence having both the given [prefix] and [suffix] removed.\n \* Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return subSequence(prefix.length, length - suffix.length)\n }\n return subSequence(0, length)\n}\n\n/\*\*\n \* Removes from a string both the given [prefix] and [suffix] if and only if\n \* it starts with the [prefix] and ends with the [suffix].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length, length - suffix.length)\n }\n return this\n}\n\n/\*\*\n \* When this char sequence starts with and ends with the given [delimiter],\n \* returns a new char sequence having this [delimiter] removed both from the start and end.\n \* Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n\n/\*\*\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it starts with and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does

not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

```

\* Replace part of string after the last occurrence of given delimiter with the [replacement] string.

\* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

```

\* Replace part of string before the last occurrence of given delimiter with the [replacement] string.

\* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

```

\* Replace part of string before the last occurrence of given delimiter with the [replacement] string.

\* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

```

public fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
 val index = lastIndexOf(delimiter)
 return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

```

// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific

```

public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific

```

\* Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression with the given [replacement].

\* The [replacement] can consist of any combination of literal text and \$-substitutions. To treat the replacement string literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)

```

\* Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a replacement for that match.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String = regex.replace(this, transform)

```

\* Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.

\* @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)

```

\* Returns a copy of this string having its first character replaced with the result of the specified [transform], or the original string if it's empty.

\* @param transform function that takes the first character and returns the result of the transform applied to the character.

```

@sample samples.text.Strings.replaceFirstChar

```

```

@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@JvmName("replaceFirstCharWithChar")
@kotlin.internal.InlineOnly
public inline fun String.replaceFirstChar(transform: (Char) -> Char): String {
 return if (isNotEmpty()) transform(this[0]) + substring(1) else this
}

```

\* Returns a copy of this string having its first character replaced with the result of the specified [transform], or the original string if it's empty.

\* @param transform function that takes the first character and returns the result of the transform applied to the character.

```

@sample samples.text.Strings.replaceFirstChar

```

```

@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@JvmName("replaceFirstCharWithCharSequence")
@kotlin.internal.InlineOnly
public inline fun String.replaceFirstChar(transform: (Char) -> CharSequence): String {
 return if (isNotEmpty()) transform(this[0]).toString() + substring(1) else this
}

```

\* Returns `true` if this char sequence matches the given regular expression.

```

@kotlin.internal.InlineOnly
public inline infix fun CharSequence.matches(regex: Regex): Boolean =

```

```

regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n * Invoked when it's
already known that arguments are not Strings, so that no additional type checks are performed.\n */\ninternal fun
CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean): Boolean {\n if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset >
other.length - length)) {\n return false\n }\n for (index in 0 until length) {\n if (!this[thisOffset +
index].equals(other[otherOffset + index], ignoreCase))\n return false\n }\n return true\n}\n\n/**\n *
Returns `true` if this char sequence starts with the specified character.\n */\npublic fun
CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 &&
this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*/\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n
if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix)\n else\n return
regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char
sequence starting at the specified offset [startIndex] starts with the specified prefix.\n */\npublic fun
CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if
(!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix, startIndex)\n else\n
return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char
sequence ends with the specified suffix.\n */\npublic fun CharSequence.endsWith(suffix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase && this is String && suffix is String)\n return
this.endsWith(suffix)\n else\n return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n}\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char
sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this
and [other] have no common prefix, returns the empty string.\n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n * @sample samples.text.Strings.commonPrefixWith\n
*/\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n
val shortestLength = minOf(this.length, other.length)\n var i = 0\n while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n i++\n }\n if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n i--\n }\n return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n\n *
@param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonSuffixWith\n
*/\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n val thisLength = this.length\n val otherLength = other.length\n val
shortestLength = minOf(thisLength, otherLength)\n var i = 0\n while (i < shortestLength && this[thisLength -
i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n i++\n }\n if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n i--\n }\n
return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the index of the
first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n * @param ignoreCase `true` to ignore character case when matching a character.
By default `false`.\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of
[chars] are found.\n */\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase:
Boolean = false): Int {\n if (!ignoreCase && chars.size == 1 && this is String) {\n val char = chars.single()\n
return nativeIndexOf(char, startIndex)\n }\n for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n val
charAtIndex = get(index)\n if (chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n
return -1\n}\n\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\n
* starting from the specified [startIndex] and optionally ignoring the case.\n * @param startIndex The index of
character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param

```

```

ignoreCase `true` to ignore character case when matching a character. By default `false`.

```

`@return` An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.

```

public fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
 if (!ignoreCase && chars.size == 1 && this is String) {
 val char = chars.single()
 return nativeLastIndexOf(char, startIndex)
 }
 for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {
 val charAtIndex = get(index)
 if (chars.any { it.equals(charAtIndex, ignoreCase) })
 return index
 }
 return -1
}
private fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {
 val indices = if (!last)
 startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)
 else
 startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)
 if (this is String && other is String) { // smart cast
 for (index in indices) {
 if (other.regionMatches(0, this, index, other.length, ignoreCase))
 return index
 }
 } else {
 for (index in indices) {
 if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))
 return index
 }
 }
 return -1
}
private fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {
 if (!ignoreCase && strings.size == 1) {
 val string = strings.single()
 val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)
 return if (index < 0) null else index to string
 }
 val indices = if (!last)
 startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0
 if (this is String) {
 for (index in indices) {
 val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }
 if (matchingString != null)
 return index to matchingString
 }
 } else {
 for (index in indices) {
 val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }
 if (matchingString != null)
 return index to matchingString
 }
 }
 return null
}

```

`* Finds the first occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.`

`* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.`

`* @return` A pair of an index of the first occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.`

```

public fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =
 findAnyOf(strings, startIndex, ignoreCase, last = false)

```

`* Finds the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.`

`* @param startIndex` The index of character to start searching at. The search proceeds backward toward the beginning of the string.

`* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.`

`* @return` A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.

`* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this string, and finds at each position the first element in [strings] that matches this string at that position.`

```

public fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =
 findAnyOf(strings, startIndex, ignoreCase, last = true)

```

`* Finds the index of the first occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.`

`* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.`

`* @return` An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.

`* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.`

```

public fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =
 findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1

```

`* Finds the index of the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.`

`* @param startIndex` The index of character to start searching at. The search proceeds



backward toward the beginning of the string.\n \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n \* @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\n \* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n \* the end toward the beginning of this string, and finds at each position the first element in [strings]\n \* that matches this string at that position.\n \*/\npublic fun

CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n// indexOf\n\n/\*\*\n \* Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\n \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n \* @return An index of the first occurrence of [char] or -1 if none is found.\n \*/\npublic fun

CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeIndexOf(char, startIndex)\n}\n\n/\*\*\n \* Returns the index within this char sequence of the first occurrence of the specified [string],\n \* starting from the specified [startIndex].\n \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n \* @return An index of the first occurrence of [string] or -1 if none is found.\n \*/\npublic fun

CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, length, ignoreCase)\n else\n nativeIndexOf(string, startIndex)\n}\n\n/\*\*\n \* Returns the index within this char sequence of the last occurrence of the specified character,\n \* starting from the specified [startIndex].\n \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n \* @return An index of the last occurrence of [char] or -1 if none is found.\n \*/\npublic fun

CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeLastIndexOf(char, startIndex)\n}\n\n/\*\*\n \* Returns the index within this char sequence of the last occurrence of the specified [string],\n \* starting from the specified [startIndex].\n \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n \* @return An index of the last occurrence of [string] or -1 if none is found.\n \*/\npublic fun

CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, 0, ignoreCase, last = true)\n else\n nativeLastIndexOf(string, startIndex)\n}\n\n/\*\*\n \* Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\n \* @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n \*/\n@Suppress("INAPPLICABLE\_OPERATOR\_MODIFIER")\npublic operator fun

CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n if (other is String)\n indexOf(other, ignoreCase = ignoreCase) >= 0\n else\n indexOf(other, 0, length, ignoreCase) >= 0\n\n\n/\*\*\n \* Returns `true` if this char sequence contains the specified character [char].\n \* @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n \*/\n@Suppress("INAPPLICABLE\_OPERATOR\_MODIFIER")\npublic operator fun

CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n indexOf(char, ignoreCase = ignoreCase) >= 0\n\n\n/\*\*\n \* Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun

CharSequence.contains(regex: Regex): Boolean =\n regex.containsMatchIn(this)\n\n\n// rangesDelimitedBy\n\nprivate class DelimitedRangesSequence(\n private val input: CharSequence,\n private val startIndex: Int,\n private val limit: Int,\n private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?) : Sequence<IntRange> {\n override fun iterator():

Iterator<IntRange> = object : Iterator<IntRange> {\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n var nextSearchIndex: Int = currentStartIndex\n var nextItem: IntRange? = null\n var counter: Int = 0\n private fun calcNext() {\n

```

 if (nextSearchIndex < 0) {
 nextState = 0
 nextItem = null
 } else {
 if
 (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {
 nextItem =
 currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val match =
 input.getNextMatch(nextSearchIndex)
 if (match == null) {
 nextItem =
 currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val
 (index, length) = match
 nextItem = currentStartIndex until index
 currentStartIndex
 = index + length
 nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0
 }
 }
 nextState = 1
 }
 }
 override fun next(): IntRange {
 if (nextState ==
 -1) {
 calcNext()
 if (nextState == 0) {
 throw NoSuchElementException()
 }
 val
 result = nextItem as IntRange
 // Clean next to avoid keeping reference on yielded instance
 nextItem = null
 nextState = -1
 return result
 }
 override fun hasNext(): Boolean {
 if (nextState == -1) {
 calcNext()
 return nextState == 1
 }
 }
 }
}

```

\* Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 \* @param delimiters One or more characters to be used as delimiters.
 \* @param startIndex The index to start searching delimiters from.
 \* No range having its start value less than [startIndex] is returned.
 \* [startIndex] is coerced to be non-negative and not greater than length of this string.
 \* @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 \* @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 \* ^private fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->
 indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }
 })
 \* Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 \* @param delimiters One or more strings to be used as delimiters.
 \* @param startIndex The index to start searching delimiters from.
 \* No range having its start value less than [startIndex] is returned.
 \* [startIndex] is coerced to be non-negative and not greater than length of this string.
 \* @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 \* @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 \* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
 \* the beginning to the end of this string, and finds at each position the first element in [delimiters]
 \* that matches this string at that position.
 \* ^private fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 val delimitersList = delimiters.asList()
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->
 findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
 })
 \* internal fun requireNonNegativeLimit(limit: Int) = require(limit >= 0) { "Limit must be non-negative, but was \$limit" }
 \* split
 \* Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 \* @param delimiters One or more strings to be used as delimiters.
 \* @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 \* @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 \* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
 \* the beginning to the end of this string, and finds at each position the first element in [delimiters]
 \* that matches this string at that position.
 \* ^public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
 rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }
 \* Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 \* @param delimiters One or more strings to be used as delimiters.
 \* @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 \* @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 \* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
 \* the beginning to the end of this string, and matches at each position the first element in [delimiters]
 \* that is equal to a delimiter in this

```

instance at that position.\n */\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false,
limit: Int = 0): List<String> {\n if (delimiters.size == 1) {\n val delimiter = delimiters[0]\n if
(!delimiter.isEmpty()) {\n return split(delimiter, ignoreCase, limit)\n }\n }\n return
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n * @param
delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case
when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n
*/\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n * @param
delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings
to return.\n */\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {\n if (delimiters.size == 1) {\n return split(delimiters[0].toString(), ignoreCase, limit)\n }\n return
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it)
}\n}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This
is specialized version of split which receives single non-empty delimiter and offers better performance\n * @param
delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a
delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\nprivate fun
CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n
requireNonNegativeLimit(limit)\n var currentOffset = 0\n var nextIndex = indexOf(delimiter, currentOffset,
ignoreCase)\n if (nextIndex == -1 || limit == 1) {\n return listOf(this.toString())\n }\n val isLimited =
limit > 0\n val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n do {\n result.add(substring(currentOffset, nextIndex))\n currentOffset = nextIndex + delimiter.length\n // Do not
search for next occurrence if we're reaching limit\n if (isLimited && result.size == limit - 1) break\n nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n } while (nextIndex != -1)\n result.add(substring(currentOffset, length))\n return result\n}\n\n/**\n * Splits this char sequence to a list of
strings around matches of the given regular expression.\n * @param limit Non-negative value specifying the
maximum number of substrings to return.\n * Zero by default means no limit is set.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of strings around matches of the given
regular expression.\n * @param limit Non-negative value specifying the maximum number of substrings to
return.\n * Zero by default means no limit is set.\n * @sample samples.text.Strings.splitToSequence\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
regex.splitToSequence(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the
following character sequences: CRLF, LF or CR.\n * @param limit Non-negative value specifying the maximum number of
lines to return.\n * The lines returned do not include terminating line
separators.\n */\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n",
"\\r")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences:
CRLF, LF or CR.\n * @param limit Non-negative value specifying the maximum number of lines to return.\n * The lines
returned do not include terminating line separators.\n */\npublic fun
CharSequence.lines(): List<String> = lineSequence().toList()\n\n/**\n * Returns `true` if the contents of this char
sequence are equal to the contents of the specified [other],\n * i.e. both char sequences contain the same number of
the same characters in the same order.\n * @param other CharSequence\n * @sample samples.text.Strings.contentEquals\n
*/\n@SinceKotlin("1.5")\npublic expect infix fun CharSequence?.contentEquals(other: CharSequence?):
Boolean\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified
[other], optionally ignoring case difference.\n * @param ignoreCase `true` to ignore character case when
comparing contents.\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin("1.5")\npublic
expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun

```

```

CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n if (this is String && other is String) {\n return this.equals(other, ignoreCase = true)\n }\n if (this === other) return true\n if (this == null || other == null || this.length != other.length) return false\n for (i in 0 until length) {\n if (!this[i].equals(other[i], ignoreCase = true)) {\n return false\n }\n }\n return true\n}\n\ninternal fun CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n if (this is String && other is String) {\n return this == other\n }\n if (this === other) return true\n if (this == null || other == null || this.length != other.length) return false\n for (i in 0 until length) {\n if (this[i] != other[i]) {\n return false\n }\n }\n return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word `true`, `false` if it is equal to `false`,\n * and throws an exception otherwise.\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n * @sample samples.text.Strings.toBooleanStrict\n */\n\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrict(): Boolean = when (this) {\n "true" -> true\n "false" -> false\n else -> throw IllegalArgumentException("The string doesn't represent a boolean value: $this")\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word `true`, `false` if it is equal to `false`,\n * and `null` otherwise.\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n * @sample samples.text.Strings.toBooleanStrictOrNull\n */\n\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n "true" -> true\n "false" -> false\n else -> null\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class UByteArray\n\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n /**\n * Creates a new array of the specified [size], with all elements initialized to zero.\n */\n public constructor(size: Int) : this(ByteArray(size))\n /**\n * Returns the array element at the given [index]. This method can be called using the index operator.\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun get(index: Int): UByte = storage[index].toUByte()\n /**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: UByte) {\n storage[index] = value.toByte()\n }\n /**\n * Returns the number of elements in the array.\n */\n public override val size: Int get() = storage.size\n /**\n * Creates an iterator over the elements of the array.\n */\n public override operator fun iterator(): kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\n private class Iterator(private val array: ByteArray) : UByteIterator() {\n private var index = 0\n override fun hasNext() = index < array.size\n override fun nextUByte() = if (index < array.size) array[index++].toUByte()\n else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UByte): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge method for this method.\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UByte) return false\n return storage.contains(element.toByte())\n }\n\n override fun containsAll(elements: Collection<UByte>): Boolean {\n return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index -> init(index).toByte() })\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UIntArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) :
Collection<UInt> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(IntArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the element at the given [index] to
the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of
this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
 *\n public operator fun set(index: Int, value: UInt) {\n storage[index] = value.toInt()\n }\n\n /** Returns
the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n /** Creates an
iterator over the elements of the array. *\n public override operator fun iterator(): kotlin.collections.Iterator<UInt>
= Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\n private class Iterator(private val array:
IntArray) : UIntIterator() {\n private var index = 0\n override fun hasNext() = index < array.size\n
 override fun nextUInt() = if (index < array.size) array[index++].toInt() else throw
NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UInt): Boolean {\n //
TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge
method for this method.\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt) return
false\n\n return storage.contains(element.toInt())\n }\n\n override fun containsAll(elements:
Collection<UInt>): Boolean {\n return (elements as Collection<*>).all { it is UInt &&
storage.contains(it.toInt()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) :
Collection<ULong> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(LongArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n *\n public operator fun set(index: Int, value: ULong) {\n storage[index] = value.toLong()\n
 }\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n
 /** Creates an iterator over the elements of the array. *\n public override operator fun iterator():
kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\n private
class Iterator(private val array: LongArray) : ULongIterator() {\n private var index = 0\n override fun

```

```

hasNext() = index < array.size\n override fun nextULong() = if (index < array.size) array[index++].toULong()
else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: ULong): Boolean
{\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate
special bridge method for this method.\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
ULong) return false\n\n return storage.contains(element.toLong())\n }\n\n override fun
containsAll(elements: Collection<ULong>): Boolean {\n return (elements as Collection<*>).all { it is ULong
&& storage.contains(it.toLong()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * \n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n return ULongArray(LongArray(size) { index ->
init(index).toLong()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n"/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :
Collection<UShort> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
 public constructor(size: Int) : this(ShortArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n * \n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n * \n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n */\n public operator fun set(index: Int, value: UShort) {\n storage[index] = value.toShort()\n
}\n\n /** Returns the number of elements in the array. */\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. */\n public override operator fun iterator():
kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\n private
class Iterator(private val array: ShortArray) : UShortIterator() {\n private var index = 0\n override fun
hasNext() = index < array.size\n override fun nextUShort() = if (index < array.size) array[index++].toUShort()
else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UShort): Boolean
{\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate
special bridge method for this method.\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
UShort) return false\n\n return storage.contains(element.toShort())\n }\n\n override fun
containsAll(elements: Collection<UShort>): Boolean {\n return (elements as Collection<*>).all { it is UShort
&& storage.contains(it.toShort()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * \n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elements\n"/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n

```



If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component3(): UShort {\n return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component4(): UInt {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior
is unspecified.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun
ULongArray.component4(): ULong {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from
the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in
Kotlin/JS where the behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component4(): UByte {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component4(): UShort {\n return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component5(): UInt {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior
is unspecified.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun
ULongArray.component5(): ULong {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from
the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in
Kotlin/JS where the behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n return get(4)\n}\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int):
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the
[index] is out of bounds of this array.\n * \n * @sample
```



```

samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrNull(index: Int): UInt? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample

```

```

samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (element in this) if (predicate(element)) return
element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (element in this) if
(predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrNull(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrNull(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrNull(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrNull(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n
*\n * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n
*\n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):

```

```

ULong? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the
array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(): UShort {\n return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching
the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n for (index in this.indices.reversed()) {\n val element =
this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
@throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n *
\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n *
\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n return storage.lastIndexOf(element.toByte())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.lastOrNull(): UInt? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last
element, or `null` if the array is empty.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element matching the given [predicate], or
`null` if no such element was found.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n *
Returns the last
element matching the given [predicate], or `null` if no such element was found.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n *
Returns the
last element matching the given [predicate], or `null` if no such element was found.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n *
Returns the
last element matching the given [predicate], or `null` if no such element was found.\n
\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n *
Returns a
random element from this array.\n
\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n return random(Random)\n}\n\n/**\n *
Returns a random element from this array.\n
\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n return random(Random)\n}\n\n/**\n *
Returns a random element from this
array.\n
\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n return random(Random)\n}\n\n/**\n *
Returns a random element from this
array.\n
\n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n return random(Random)\n}\n\n/**\n *
Returns a random element from this

```

```

array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UByteArray.randomOrNull(random: Random): UByte? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n return storage.single().toInt()\n}\n\n/**\n * Returns the single element, or throws an
exception if the array is empty or has more than one element.\n

```

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.single(): ULong {^n return storage.single().toULong()^n}^n/**^n * Returns the single element, or
throws an exception if the array is empty or has more than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.single(): UByte {^n return storage.single().toUByte()^n}^n/**^n * Returns the single element, or
throws an exception if the array is empty or has more than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.single(): UShort {^n return storage.single().toUShort()^n}^n/**^n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.single(predicate: (UInt) -> Boolean): UInt {^n var single: UInt? = null^n var found = false^n for
(element in this) {^n if (predicate(element)) {^n if (found) throw IllegalArgumentException("Array
contains more than one matching element.")^n single = element^n found = true^n }^n }^n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")^n
@Suppress("UNCHECKED_CAST")^n return single as UInt^n}^n/**^n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.single(predicate: (ULong) -> Boolean): ULong {^n var single: ULong? = null^n var found = false^n
for (element in this) {^n if (predicate(element)) {^n if (found) throw IllegalArgumentException("Array
contains more than one matching element.")^n single = element^n found = true^n }^n }^n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")^n
@Suppress("UNCHECKED_CAST")^n return single as ULong^n}^n/**^n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.single(predicate: (UByte) -> Boolean): UByte {^n var single: UByte? = null^n var found = false^n
for (element in this) {^n if (predicate(element)) {^n if (found) throw IllegalArgumentException("Array
contains more than one matching element.")^n single = element^n found = true^n }^n }^n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")^n
@Suppress("UNCHECKED_CAST")^n return single as UByte^n}^n/**^n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.single(predicate: (UShort) -> Boolean): UShort {^n var single: UShort? = null^n var found = false^n
for (element in this) {^n if (predicate(element)) {^n if (found) throw IllegalArgumentException("Array
contains more than one matching element.")^n single = element^n found = true^n }^n }^n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")^n
@Suppress("UNCHECKED_CAST")^n return single as UShort^n}^n/**^n * Returns single element, or `null` if
the array is empty or has more than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.singleOrNull(): UInt? {^n
return if (size == 1) this[0] else null^n}^n/**^n * Returns single element, or `null` if the array is empty or has more
than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
ULongArray.singleOrNull(): ULong? {^n return if (size == 1) this[0] else null^n}^n/**^n * Returns single
element, or `null` if the array is empty or has more than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.singleOrNull(): UByte? {^n
return if (size == 1) this[0] else null^n}^n/**^n * Returns single element, or `null` if the array is empty or has more
than one element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
UShortArray.singleOrNull(): UShort? {^n return if (size == 1) this[0] else null^n}^n/**^n * Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun

```



```

UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
 var single: UInt? = null
 var found = false
 for (element in this) {
 if (predicate(element)) {
 if (found) return null
 single = element
 found = true
 }
 }
 if (!found) return null
 return single
}
/** Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
 var single: ULong? = null
 var found = false
 for (element in this) {
 if (predicate(element)) {
 if (found) return null
 single = element
 found = true
 }
 }
 if (!found) return null
 return single
}
/** Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
 var single: UByte? = null
 var found = false
 for (element in this) {
 if (predicate(element)) {
 if (found) return null
 single = element
 found = true
 }
 }
 if (!found) return null
 return single
}
/** Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
 var single: UShort? = null
 var found = false
 for (element in this) {
 if (predicate(element)) {
 if (found) return null
 single = element
 found = true
 }
 }
 if (!found) return null
 return single
}
/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return takeLast((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return takeLast((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return takeLast((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return takeLast((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return take((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */
@sample samples.collections.Collections.Transformations.drop
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 return take((size - n).coerceAtLeast(0))
}
/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 */

```

```

IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo
0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n var yielding = false\n val list =
ArrayList<UInt>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
 list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n var yielding = false\n val list =
ArrayList<ULong>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n var yielding = false\n val list =
ArrayList<UByte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample

```

```

samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n var yielding = false\n val list =
ArrayList<UShort>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n return filterTo(ArrayList<UShort>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n return
filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n return
filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n return
filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n * @param [predicate] function that takes the index of an element and the element
itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :

```



```

all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):

```

```

List<ULong> {
 val size = indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<ULong>(size)
 for (index in indices) {
 list.add(get(index))
 }
 return list
}

Returns a list containing elements at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {
 val size = indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<UByte>(size)
 for (index in indices) {
 list.add(get(index))
 }
 return list
}

Returns a list containing elements at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {
 val size = indices.collectionSizeOrDefault(10)
 if (size == 0) return emptyList()
 val list = ArrayList<UShort>(size)
 for (index in indices) {
 list.add(get(index))
 }
 return list
}

Returns an array containing elements of this array at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {
 return UIntArray(storage.sliceArray(indices))
}

Returns an array containing elements of this array at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {
 return ULongArray(storage.sliceArray(indices))
}

Returns an array containing elements of this array at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {
 return UByteArray(storage.sliceArray(indices))
}

Returns an array containing elements of this array at specified [indices].

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {
 return UShortArray(storage.sliceArray(indices))
}

Returns an array containing elements at indices in the specified [indices] range.

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices: IntRange):
UIntArray {
 return UIntArray(storage.sliceArray(indices))
}

Returns an array containing elements at indices in the specified [indices] range.

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: IntRange): ULongArray {
 return ULongArray(storage.sliceArray(indices))
}

Returns an array containing elements at indices in the specified [indices] range.

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: IntRange): UByteArray {
 return UByteArray(storage.sliceArray(indices))
}

Returns an array containing elements at indices in the specified [indices] range.

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: IntRange): UShortArray {
 return UShortArray(storage.sliceArray(indices))
}

Returns a list containing first [n] elements.

@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun UIntArray.take(n: Int): List<UInt> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 if (n == 0) return emptyList()
 if (n >= size) return toList()
 if (n == 1) return listOf(this[0])
 var count = 0
 val list = ArrayList<UInt>(n)
 for (item in this) {
 list.add(item)
 if (++count == n) break
 }
 return list
}

Returns a list containing first [n] elements.

@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take

*SinceKotlin("1.3")ExperimentalUnsignedTypes
public fun ULongArray.take(n: Int): List<ULong> {
 require(n >= 0) { "Requested element count $n is less than zero." }
 if (n == 0) return emptyList()
 if (n >= size) return toList()
 if (n == 1) return listOf(this[0])
 var count = 0
 val list = ArrayList<ULong>(n)
 for (item in this) {
 list.add(item)
 if (++count == n) break
 }
 return list
}

Returns a list containing first [n] elements.

@throws IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.take

```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UByte>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UShort>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UInt>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<ULong>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UByte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UShort>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex downTo 0)
```

```

{\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n } \n return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item in
this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list
containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list = ArrayList<ULong>()\n for
(item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\n for
(item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n val list = ArrayList<UShort>()\n for
(item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex,
toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws

```



```

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Returns a list with elements in reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n
if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n *
Returns a list with elements in reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n
if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray {\n return ULongArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reversedArray(): UByteArray {\n return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit
{\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n if
(size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n
if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted():
List<UInt> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sorted(): List<ULong> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n
return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted():
List<UShort> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this
array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray
{\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n
if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray
{\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending():
UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending():
ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending():
UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending():
UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt>
{\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sortedDescending(): List<ULong> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending():
List<UByte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve
their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.sortedDescending(): List<UShort> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n
* of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.asByteArray(): ByteArray {\n return storage\n}\n\n/**\n * Returns an array of type [IntArray], which
is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.asIntArray(): IntArray {\n return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray {\n return storage\n}\n\n/**\n * Returns an array of type [ShortArray],
which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n return storage\n}\n\n/**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of
this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ByteArray.asUByteArray(): UByteArray {\n return UByteArray(this)\n}\n\n/**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.asUIntArray(): UIntArray {\n return UIntArray(this)\n}\n\n/**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {\n return ULongArray(this)\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {\n return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n
return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to
one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray):
Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean
{\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray):
Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray?.contentEquals(other:
UIntArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
ULongArray?.contentEquals(other: ULongArray?): Boolean {\n return
this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray?.contentEquals(other:
UByteArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the
two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
in the same order.\n * \n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
UShortArray?.contentEquals(other: UShortArray?): Boolean {\n return
this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as
if it is [List].\n * \n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n

```

```

*\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun
ULongArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash
code based on the contents of this array as if it is [List].\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun
UShortArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated(\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated(\nUse
Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated(\nUse
Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@Deprecated(\nUse
Kotlin compiler 1.4 to avoid deprecation
warning.\n)\n@SinceKotlin(\n1.3\n)\n@DeprecatedSinceKotlin(hiddenSince =
\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n
\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n
return this?.joinToString(\n, \n, \n[\n, \n]) ? : \nnull\n}\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n
\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin(\n1.4\n)\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n
return this?.joinToString(\n, \n, \n[\n, \n]) ? : \nnull\n}\n}\n\n/**\n * Returns a string representation of the contents of

```

the specified array as if it is [List].\n \* \n \* @sample  
samples.collections.Arrays.ContentOperations.contentToString\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
```

0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): UShortArray {\n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOf(): UIntArray {\n return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is
a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(): ULongArray {\n return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOf(): UByteArray {\n return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOf(): UShortArray {\n return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at
the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array
is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOf(newSize: Int): UIntArray {\n return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(newSize: Int): ULongArray {\n return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOf(newSize: Int): UByteArray {\n return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOf(newSize: Int): UShortArray {\n return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start
of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *

```

```

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n return
UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n return
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n return
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:
Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to
fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,

```



```

fromIndex: Int = 0, toIndex: Int = size): Unit {
 storage.fill(element.toShort(), fromIndex, toIndex)
}

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UIntArray.indices: IntRange
 get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
 get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
 get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
 get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
 get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
 get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
 get() = storage.lastIndex

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UIntArray.plus(element: UInt): UIntArray {
 return UIntArray(storage +
 element.toInt())

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun ULongArray.plus(element: ULong): ULongArray {
 return ULongArray(storage +
 element.toLong())

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UByteArray.plus(element: UByte): UByteArray {
 return UByteArray(storage +
 element.toByte())

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UShortArray.plus(element: UShort): UShortArray {
 return UShortArray(storage +
 element.toShort())

Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toInt()
 return
 UIntArray(result)

Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public operator
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toLong()
 return
 ULongArray(result)

Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toByte()
 return
 UByteArray(result)

Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toShort()
 return
 UShortArray(result)

Returns an array containing all elements of the original array and then all
elements of the given [elements] array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun

```

```

UIntArray.plus(elements: UIntArray): UIntArray {\n return UIntArray(storage + elements.storage)\n}\n\n**\n *
Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {\n return ULongArray(storage +
elements.storage)\n}\n\n**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {\n return UByteArray(storage +
elements.storage)\n}\n\n**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {\n return UShortArray(storage +
elements.storage)\n}\n\n**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(): Unit {\n if (size > 1) sortArray(this, 0, size)\n}\n\n**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n if (size > 1)
sortArray(this, 0, size)\n}\n\n**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sort(): Unit {\n if (size > 1) sortArray(this, 0, size)\n}\n\n**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n if (size > 1)
sortArray(this, 0, size)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this, fromIndex,
toIndex)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are
sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)
to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of
the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.toLongArray(): LongArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.toShortArray(): ShortArray {\n return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt>
{\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.toTypedArray(): Array<ULong> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray():
Array<UByte> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray():
Array<UShort> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing
all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out UByte>.toUByteArray(): UByteArray {\n return UByteArray(size) { index -> this[index] }\n}\n\n/**\n
* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned
reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.toUByteArray(): UByteArray {\n return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of
UInt containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray
{\n return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.toUIntArray(): UIntArray {\n return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong
containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():
ULongArray {\n return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.toULongArray(): ULongArray {\n return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array
of UShort containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray():
UShortArray {\n return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.toUShortArray(): UShortArray {\n return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map]
where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to
each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n val result = LinkedHashMap<UInt,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n val result =
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *

```

```

@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\nUByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n val result =\n LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,\n valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one\n * gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\nUShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n val result =\n LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,\n valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each\n * element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function\n * applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n for\n (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M {\n for\n (element in this) {\n destination.put(element, valueSelector(element))\n }\n return\n destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element\n * of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied\n * to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n for\n (element in this) {\n destination.put(element, valueSelector(element))\n }\n return\n destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element\n * of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied\n * to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {\n for\n (element in this) {\n destination.put(element, valueSelector(element))\n }\n return\n destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n * invoked on each element of original array.\n * \n * @sample\n samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n * invoked on each element of original array.\n * \n * @sample\n samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

```

```

ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->

```

```

Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the

```

original array by the key returned by the given [keySelector] function  
\* applied to each element and returns a map where each group key is associated with a list of corresponding elements.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

samples.collections.Collections.Transformations.groupBy

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>\nUByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function  
\* applied to each element and returns a map where each group key is associated with a list of corresponding elements.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

samples.collections.Collections.Transformations.groupBy

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>\nUShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array  
\* by the key returned by the given [keySelector] function applied to the element  
\* and returns a map where each group key is associated with a list of corresponding values.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\nUIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array  
\* by the key returned by the given [keySelector] function applied to the element  
\* and returns a map where each group key is associated with a list of corresponding values.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\nULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array  
\* by the key returned by the given [keySelector] function applied to the element  
\* and returns a map where each group key is associated with a list of corresponding values.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\nUByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array  
\* by the key returned by the given [keySelector] function applied to the element  
\* and returns a map where each group key is associated with a list of corresponding values.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @sample

samples.collections.Collections.Transformations.groupByKeysAndValues

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\nUShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n return
```

groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function  
\* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.  
\* The returned map preserves the entry iteration order of the keys produced from the original array.  
\* @return The [destination] map.  
\* @sample

samples.collections.Collections.Transformations.groupBy



```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, M :
MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n
for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UInt>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, M :
MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<ULong>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, M :
MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UByte>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, M :
MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UShort>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,
valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n } \n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,
valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n } \n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,
valueTransform: (UByte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list

```

```

= destination.getOrPut(key) { ArrayList<V>() } list.add(valueTransform(element)) } return
destination } } \n \n /** \n * Groups values returned by the [valueTransform] function applied to each element of the
original array \n * by the key returned by the given [keySelector] function applied to the element \n * and puts to the
[destination] map each group key associated with a list of corresponding values. \n * \n * @return The [destination]
map. \n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K,
valueTransform: (UShort) -> V): M { \n for (element in this) { \n val key = keySelector(element) \n val list
= destination.getOrPut(key) { ArrayList<V>() } \n list.add(valueTransform(element)) \n } \n return
destination } } \n \n /** \n * Returns a list containing the results of applying the given [transform] function \n * to each
element in the original array. \n * \n * @sample samples.collections.Collections.Transformations.map \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> { \n return mapTo(ArrayList<R>(size), transform) \n } \n \n /** \n *
Returns a list containing the results of applying the given [transform] function \n * to each element in the original
array. \n * \n * @sample samples.collections.Collections.Transformations.map \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> { \n return mapTo(ArrayList<R>(size), transform) \n } \n \n /** \n *
Returns a list containing the results of applying the given [transform] function \n * to each element in the original
array. \n * \n * @sample samples.collections.Collections.Transformations.map \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> { \n return mapTo(ArrayList<R>(size), transform) \n } \n \n /** \n *
Returns a list containing the results of applying the given [transform] function \n * to each element in the original
array. \n * \n * @sample samples.collections.Collections.Transformations.map \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to each element and its index in the original array. \n * @param [transform] function
that takes the index of an element and the element itself \n * and returns the result of the transform applied to the
element. \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> { \n return
mapIndexedTo(ArrayList<R>(size), transform) \n } \n \n /** \n * Applies the given [transform] function to each
element and its index in the original array \n * and appends the results to the given [destination]. \n * @param
[transform] function that takes the index of an element and the element itself \n * and returns the result of the

```

transform applied to the element.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps
each element of the original array\n * into an [IndexedValue] containing the index of that element and the element
itself.\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public fun UIntArray.withIndex():
Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public fun ULongArray.withIndex():
Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
```

```
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
```

that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\/n return IndexingIterable { iterator() }\/n}\/n\/n**\/n * Returns `true` if all
elements match the given [predicate].\/n *\/n * @sample samples.collections.Collections.Aggregates.all\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\/n for (element in this) if (!predicate(element)) return
false\/n return true\/n}\/n\/n**\/n * Returns `true` if all elements match the given [predicate].\/n *\/n * @sample
samples.collections.Collections.Aggregates.all\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\/n for (element in this) if (!predicate(element)) return
false\/n return true\/n}\/n\/n**\/n * Returns `true` if all elements match the given [predicate].\/n *\/n * @sample
samples.collections.Collections.Aggregates.all\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\/n for (element in this) if (!predicate(element)) return
false\/n return true\/n}\/n\/n**\/n * Returns `true` if all elements match the given [predicate].\/n *\/n * @sample
samples.collections.Collections.Aggregates.all\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\/n for (element in this) if (!predicate(element)) return
false\/n return true\/n}\/n\/n**\/n * Returns `true` if array has at least one element.\/n *\/n * @sample
samples.collections.Collections.Aggregates.any\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UIntArray.any(): Boolean {\/n return storage.any()\/n}\/n\/n**\/n * Returns `true` if array has at least one element.\/n
*\/n * @sample samples.collections.Collections.Aggregates.any\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
ULongArray.any(): Boolean {\/n return storage.any()\/n}\/n\/n**\/n * Returns `true` if array has at least one
element.\/n *\/n * @sample samples.collections.Collections.Aggregates.any\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UByteArray.any(): Boolean {\/n return storage.any()\/n}\/n\/n**\/n * Returns `true` if array has at least one
element.\/n *\/n * @sample samples.collections.Collections.Aggregates.any\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UShortArray.any(): Boolean {\/n return storage.any()\/n}\/n\/n**\/n * Returns `true` if at least one element matches
the given [predicate].\/n *\/n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\/n for (element in this) if (predicate(element)) return true\/n
 return false\/n}\/n\/n**\/n * Returns `true` if at least one element matches the given [predicate].\/n *\/n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\/n for (element in this) if (predicate(element)) return
true\/n return false\/n}\/n\/n**\/n * Returns `true` if at least one element matches the given [predicate].\/n *\/n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\/n for (element in this) if (predicate(element)) return
true\/n return false\/n}\/n\/n**\/n * Returns `true` if at least one element matches the given [predicate].\/n *\/n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\/n for (element in this) if (predicate(element)) return
true\/n return false\/n}\/n\/n**\/n * Returns the number of elements matching the given [predicate].\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/n@kotlin.internal.InlineOnly\/npublic inline fun

```

```

UIntArray.count(predicate: (UInt) -> Boolean): Int { \n var count = 0 \n for (element in this) if
(predicate(element)) ++count \n return count \n} \n \n /** \n * Returns the number of elements matching the given
[predicate]. \n * \n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public
inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int { \n var count = 0 \n for (element in this) if
(predicate(element)) ++count \n return count \n} \n \n /** \n * Returns the number of elements matching the given
[predicate]. \n * \n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int { \n var count = 0 \n for (element in this) if
(predicate(element)) ++count \n return count \n} \n \n /** \n * Returns the number of elements matching the given
[predicate]. \n * \n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int { \n var count = 0 \n for (element in this) if
(predicate(element)) ++count \n return count \n} \n \n /** \n * Accumulates value starting with [initial] value and
applying [operation] from left to right \n * to current accumulator value and each element. \n * \n * Returns the
specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R { \n var accumulator = initial \n for (element in this)
accumulator = operation(accumulator, element) \n return accumulator \n} \n \n /** \n * Accumulates value starting
with [initial] value and applying [operation] from left to right \n * to current accumulator value and each element. \n *
Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R { \n var accumulator = initial \n for (element in
this) accumulator = operation(accumulator, element) \n return accumulator \n} \n \n /** \n * Accumulates value
starting with [initial] value and applying [operation] from left to right \n * to current accumulator value and each
element. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R { \n var accumulator = initial \n for (element in
this) accumulator = operation(accumulator, element) \n return accumulator \n} \n \n /** \n * Accumulates value
starting with [initial] value and applying [operation] from left to right \n * to current accumulator value and each
element. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R { \n var accumulator = initial \n for (element in
this) accumulator = operation(accumulator, element) \n return accumulator \n} \n \n /** \n * Accumulates value
starting with [initial] value and applying [operation] from left to right \n * to current accumulator value and each
element with its index in the original array. \n * \n * Returns the specified [initial] value if the array is empty. \n *
\n * @param [operation] function that takes the index of an element, current accumulator value \n * and the element
itself, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R { \n var index = 0 \n var
accumulator = initial \n for (element in this) accumulator = operation(index++, accumulator, element) \n return
accumulator \n} \n \n /** \n * Accumulates value starting with [initial] value and applying [operation] from left to
right \n * to current accumulator value and each element with its index in the original array. \n * \n * Returns the
specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes the index of an
element, current accumulator value \n * and the element itself, and calculates the next accumulator value. \n
*\n * @SinceKotlin("1.3") \n * @ExperimentalUnsignedTypes \n * @kotlin.internal.InlineOnly \n * public inline fun <R>
ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R { \n var index = 0 \n var

```

```

accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n var index = 0\n var
accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n var index = 0\n var
accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator =
initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

```

```

UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {
 var index =
 lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(index, get(index),
 accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {
 var index =
 lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(index, get(index),
 accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {
 var index =
 lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(index, get(index),
 accumulator)
 --index
 }
 return accumulator
}

```

Performs the given [action] on each element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.forEach(action: (UInt) -> Unit): Unit {
 for (element in this) action(element)
}

```

Performs the given [action] on each element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {
 for (element in this) action(element)
}

```

Performs the given [action] on each element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {
 for (element in this) action(element)
}

```

Performs the given [action] on each element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {
 for (element in this) action(element)
}

```

Performs the given [action] on each element, providing sequential index with the element.

@param [action] function that takes the index of an element and the element itself and performs the action on the element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
 var index = 0
 for (item in this)
 action(index++, item)
}

```

Performs the given [action] on each element, providing sequential index with the element.

@param [action] function that takes the index of an element and the element itself and performs the action on the element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
 var index = 0
 for (item in this)
 action(index++, item)
}

```

Performs the given [action] on each element, providing sequential index with the element.

@param [action] function that takes the index of an element and the element itself and performs

the action on the element.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n var index = 0\n for (item in this)
 action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n var index = 0\n for (item in this)
 action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max():
UInt? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max():
ULong? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max():
UByte? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max():
UShort? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n return
 maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n return
 maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n return
 maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n return
 maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
 maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
 selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
 {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
```



```

samples.collections.Collections.Aggregates.maxByOrNull\n
\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =

```

```

selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

```

```

Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {
 if (isEmpty()) throw
NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
selector(this[i])
 if (maxValue < v) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value among all values produced by [selector] function
* applied to each element in the
array.
* @throws NoSuchElementException if the array is empty.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {
 if (isEmpty()) throw
NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
selector(this[i])
 if (maxValue < v) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value among all values produced by [selector] function
* applied to each element in the array
or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {
 if (isEmpty()) return null
 var maxValue =
selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 maxValue = maxOf(maxValue, v)
 }
 return maxValue
}

Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {
 if (isEmpty()) return null
 var
maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 maxValue =
maxOf(maxValue, v)
 }
 return maxValue
}

Returns the largest value among all values produced
by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun
UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {
 if (isEmpty()) return null
 var maxValue
= selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 maxValue = maxOf(maxValue,
v)
 }
 return maxValue
}

Returns the largest value among all values produced by [selector]
function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun
UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {
 if (isEmpty()) return null
 var
maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 maxValue =
maxOf(maxValue, v)
 }
 return maxValue
}

Returns the largest value among all values produced
by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
ByLambdaReturnType
* ExperimentalUnsignedTypes
* kotlin.internal.InlineOnly
public inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {
 if (isEmpty()) return null
 var maxValue =
selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 maxValue = maxOf(maxValue, v)
 }
 return maxValue
}

Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOfOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n *
\n * @throws NoSuchElementException if the array is empty.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw

```

```

NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return
 maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return
 maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return
 maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return
 maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {
 if (isEmpty()) return
 null
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {
 if (isEmpty())
 return null
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
 UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {
 if (isEmpty())
 return null
 var maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

/**
 * Returns the largest value according to the provided [comparator]
 * among all values produced by [selector]
 */

```

```

function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxOrNull(): ULong? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxOrNull(): UByte? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxOrNull(): UShort? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\n
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\n
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\n
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\n
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
 val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return
max\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt?
{\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min():
ULong? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min():
UByte? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min():
UShort? {\n return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n return
minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)

```

```

{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```



```

UIntArray.minOf(selector: (UInt) -> Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector]
 * function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.minOf(selector: (UByte) -> Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector]
 * function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the
 * array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the
 * array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the
 * array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R :
Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {
 if (isEmpty()) throw
 NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v =
 selector(this[i])
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the
 * array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution

```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n* applied to each element in the array
or `null` if there are no elements.\n*\n* If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
 }\n return minValue\n}\n\n*\nReturns the smallest value among all values produced by [selector] function\n*
applied to each element in the array or `null` if there are no elements.\n*\n* If any of values produced by [selector]

```

function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nUIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nUByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nUShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the\n provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if\n the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n

```

Returns the smallest element or `null` if there are no elements.

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n if\n (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =\n e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): ULong? {\n if\n (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =\n e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): UByte? {\n if\n (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =\n e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): UShort? {\n if\n (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =\n e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull instead.",
```

```
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n return
```

```
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
```

```
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n return
```

```
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
```

```
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n return
```

```
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
```

```
ReplaceWith("this.minWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n return
```

```
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the\n provided [comparator] or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:\n Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first\n element having the smallest value according to the provided [comparator] or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:\n Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the\n first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator:\n Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the\n first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:\n Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns
```

```
`true` if the array has no elements.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
UIntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.
```

```

@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n
* @sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n
* @sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element
and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an

```

element and the element itself and performs the action on the element.

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current
```

accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator

```



```

value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?
{\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->
ULong): ULong? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) ->
UByte): UByte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) ->
UShort): UShort? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected
way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n var index = lastIndex\n if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n var index = lastIndex\n if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]

```

```

function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n
 }\n return accumulator\n}\n\n**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
*\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
*\n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes the index of an element, the element itself and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt?): UInt? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with

```

```

its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index
>= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->

```

```

UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return\n accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to\n * left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param\n [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator\n value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->\nUShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return\n accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the\n previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an\n element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return\n listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for\n (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the\n previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an\n element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return\n listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for\n (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the\n previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an\n element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return\n listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for\n (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the\n previous value in resulting list.\n * \n * @param [operation] function that takes current @accumulator value and an\n element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return

```

```

listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n if (isEmpty())\n return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n if (isEmpty())\n return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n if (isEmpty())\n return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n if (isEmpty())\n return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningReduce\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *

```

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.runningReduce
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {n if
(isEmpty()) return emptyList()n var accumulator = this[0]n val result = ArrayList<ULong>(size).apply {
add(accumulator) }n for (index in 1 until size) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator) }n return result}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.n * n * Note that `acc` value passed to
[operation] function should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n *
```

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.runningReduce
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {n if
(isEmpty()) return emptyList()n var accumulator = this[0]n val result = ArrayList<UByte>(size).apply {
add(accumulator) }n for (index in 1 until size) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator) }n return result}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.n * n * Note that `acc` value passed to
[operation] function should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n *
```

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.runningReduce
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {n if
(isEmpty()) return emptyList()n var accumulator = this[0]n val result = ArrayList<UShort>(size).apply {
add(accumulator) }n for (index in 1 until size) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator) }n return result}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element and current accumulator value that
starts with [initial] value.n * n * Note that `acc` value passed to [operation] function should not be mutated;n *
otherwise it would affect the previous value in resulting list.n * n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.n * n * @sample
```

```
samples.collections.Collections.Aggregates.scan
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@WasExperimental(ExperimentalStdlibApi::class)n
@kotlin.internal.InlineOnlynpublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R):
List<R> {n return runningFold(initial, operation)}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element and current accumulator value that
starts with [initial] value.n * n * Note that `acc` value passed to [operation] function should not be mutated;n *
otherwise it would affect the previous value in resulting list.n * n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.n * n * @sample
```

```
samples.collections.Collections.Aggregates.scan
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@WasExperimental(ExperimentalStdlibApi::class)n
@kotlin.internal.InlineOnlynpublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R):
List<R> {n return runningFold(initial, operation)}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element and current accumulator value that
starts with [initial] value.n * n * Note that `acc` value passed to [operation] function should not be mutated;n *
```



otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
```

```

R, UShort) -> R): List<R> {
 return runningFoldIndexed(initial, operation)
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
 var sum: UInt = 0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
 var sum: UInt = 0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {
 var sum: UInt = 0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
 var sum: UInt = 0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @SinceKotlin("1.4")
 * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @OverloadResolutionByLambdaReturnType
 * @Suppress("INAPPLICABLE_JVM_NAME")
 * @kotlin.jvm.JvmName("sumOfDouble")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:\n(ULong) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\napplied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:\n(UByte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\napplied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:\n(UShort) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\nselector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\napplied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values\nproduced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all\nvalues produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all\nvalues produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all\nvalues produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli\nneOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n var sum: ULong =\n0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns\nthe sum of all values produced by [selector] function applied to each element in the array.\n
```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned

```

```

list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:
Iterable<R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other)
{\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list
= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

```

```

= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other)
{\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n

```

```

list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n var sum: UInt = 0\n for (element in this) {\n sum
+= element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out ULong>.sum(): ULong {\n var sum: ULong = 0\n for (element in this)
{\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UByte>.sum(): UInt {\n var sum: UInt = 0\n for (element in this) {\n
sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UShort>.sum(): UInt {\n var sum: UInt = 0\n for (element in this) {\n
sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sum(): UInt {\n return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sum(): ULong {\n return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in
the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.sum(): UInt {\n return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n return sumOf { it.toUInt() }\n}\n\n", "*/\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the
elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UByte>.toUByteArray(): UByteArray {\n val result = UByteArray(size)\n var index = 0\n for
(element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UInt containing
all of the elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n val result = UIntArray(size)\n var index = 0\n for (element in
this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of ULong containing all of the
elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<ULong>.toULongArray(): ULongArray {\n val result = ULongArray(size)\n var index = 0\n for
(element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UShort
containing all of the elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():
UShortArray {\n val result = UShortArray(size)\n var index = 0\n for (element in this)\n result[index++] =
element\n return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n var sum: UInt = 0\n for (element in this) {\n sum
+= element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n

```



```

*\n@kotlin.jvm.JvmName("\sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<ULong>.sum(): ULong {\n var sum: ULong = 0u\n for (element in this) {\n
 sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n
 sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n
 sum += element\n }\n return sum\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b:
UInt): UInt {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong,
b: ULong): ULong {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte,
b: UByte): UByte {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UShort,
b: UShort): UShort {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n
* Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UInt, vararg other: UInt): UInt {\n var max = a\n for (e in other) max = maxOf(max, e)\n return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: ULong, vararg other: ULong): ULong {\n var max = a\n for (e in other) max = maxOf(max, e)\n return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UByte, vararg other: UByte): UByte {\n var max = a\n for (e in other) max = maxOf(max, e)\n return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UShort, vararg other: UShort): UShort {\n var max = a\n for (e in other) max = maxOf(max, e)\n return
max\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b:
UInt): UInt {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong,
b: ULong): ULong {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte,
b: UByte): UByte {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort,
b: UShort): UShort {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns
the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UInt, vararg other: UInt): UInt {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong):
ULong {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller
of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte,
vararg other: UByte): UByte {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UShort, vararg other: UShort): UShort {\n var min = a\n for (e in other) min = minOf(min, e)\n
return min\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun UIntRange.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element
from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun ULongRange.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random
element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if
this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UIntRange.random(random: Random): UInt {\n try {\n return random.nextUInt(this)\n } catch(e:
IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness.\n * \n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULongRange.random(random: Random): ULong {\n try {\n return random.nextULong(this)\n } catch(e:
IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull():
UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this

```

```

range is empty.\n *^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull():
ULong? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness, or `null` if this range is empty.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n if
(isEmpty())\n return null\n return random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this
range using the specified source of randomness, or `null` if this range is empty.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\npublic fun ULongRange.randomOrNull(random: Random): ULong? {\n if
(isEmpty())\n return null\n return random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains
the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline operator fun UIntRange.contains(element: UInt?): Boolean {\n return element != null &&
contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns
`false` if the [element] is `null`.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline operator fun ULongRange.contains(element: ULong?): Boolean {\n return element != null &&
contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: UByte): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
ULongRange.contains(value: UByte): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
ULongRange.contains(value: UInt): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: ULong): Boolean {\n return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: UShort): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
ULongRange.contains(value: UShort): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UByte.downTo(to: UByte): UIntProgression {\n return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -
1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this`
value the returned progression is empty.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UInt.downTo(to: UInt): UIntProgression {\n return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n *
Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should
be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is
empty.\n
*^n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun

```

ULong.downTo(to: ULong): ULongProgression { \n return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.downTo(to: UShort): UIntProgression { \n return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the
same step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UIntProgression.reversed(): UIntProgression { \n return UIntProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same
step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULongProgression.reversed(): ULongProgression { \n return ULongProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UIntProgression.step(step: Int): UIntProgression { \n checkStepIsPositive(step > 0, step)\n return
UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULongProgression.step(step: Long): ULongProgression { \n checkStepIsPositive(step > 0, step)\n return
ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UByte.until(to: UByte): UIntRange { \n if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to:
UInt): UIntRange { \n if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n return this .. (to -
1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.until(to: ULong): ULongRange { \n if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n
return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.until(to: UShort): UIntRange { \n if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified
[minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the
[minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtLeast(minimumValue: UInt): UInt { \n return if (this < minimumValue) minimumValue else
this}\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtLeast(minimumValue: ULong): ULong { \n return if (this < minimumValue) minimumValue else
this}\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample

```

```

samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtMost(maximumValue: UInt): UInt {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtMost(maximumValue: UByte): UByte {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<UInt>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
an empty range: $range.")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -
> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n
* @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<ULong>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
to an empty range: $range.")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n"/**\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this)
{\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n *
The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n
sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned

```

```

Types::class\npublic fun Sequence<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic expect open class Error : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class Exception : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class RuntimeException : Exception {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class IllegalArgumentException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class IllegalStateException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n\npublic expect open class ConcurrentModificationException : RuntimeException {\n constructor()\n constructor(message: String?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n constructor(message: String?, cause: Throwable?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class UnsupportedOperationException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\npublic expect open class NumberFormatException : IllegalArgumentException {\n constructor()\n constructor(message: String?)\n}\n\n\npublic expect open class NullPointerException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n\npublic expect open class ClassCastException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n\npublic expect open class AssertionError : Error {\n constructor()\n constructor(message: Any?)\n}\n\n\npublic expect open class NoSuchElementException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n\n@SinceKotlin("1.3")\npublic expect open class ArithmeticException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n\n@Deprecated("This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic expect open class NoWhenBranchMatchedException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\n@Deprecated("This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`, but returned something instead.\n */\n\n@SinceKotlin("1.4")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException {\n constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n\n\n/**\n * Returns the detailed description of this throwable with its stack trace.\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each throwable in the [Throwable.cause] chain.\n */\n\n@SinceKotlin("1.4")\npublic expect fun Throwable.stackTraceToString(): String\n\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard output or standard error output.\n */\n\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun

```

Throwable.printStackTrace(): Unit\n\n/\*\*\n \* When supported by the platform, adds the specified exception to the list of exceptions that were\n \* suppressed in order to deliver this exception.\n

\*\n@SinceKotlin("1.4")\n@Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER")\npublic expect fun Throwable.addSuppressed(exception: Throwable)\n\n/\*\*\n \* Returns a list of all exceptions that were suppressed in order to deliver this exception.\n \* The list can be empty;\n \* - if no exceptions were suppressed;\n \* - if the platform doesn't support suppressed exceptions;\n \* - if this [Throwable] instance has disabled the suppression.\n

\*\n@SinceKotlin("1.4")\npublic expect val Throwable.suppressedExceptions: List<Throwable>\n","/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\npackage kotlin.js\nimport kotlin.annotation.AnnotationTarget.\*\n\n/\*\*\n \* Gives a declaration (a function, a property or a class) specific name in JavaScript.\n \*\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY\_GETTER, PROPERTY\_SETTER)\n@OptionalExpectation\npublic expect annotation class JsName(val name: String)\n\n/\*\*\n \* Marks experimental JS export annotations.\n \* Note that behavior of these annotations will likely be changed in the future.\n \* Usages of such annotations will be reported as warnings unless an explicit opt-in with\n \* the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n \* or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option is given.\n

\*\n@Suppress("DEPRECATION")\n@Experimental(level = Experimental.Level.WARNING)\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/\*\*\n \* Exports top-level declaration on JS platform.\n \* Compiled module exposes declarations that are marked with this annotation without name mangling.\n \* This annotation can be applied to either files or top-level declarations.\n \* It is currently prohibited to export the following kinds of declarations:\n \* \* `expect` declarations\n \* \* inline functions with reified type parameters\n \* \* suspend functions\n \* \* secondary constructors without `@JsName`\n \* \* extension properties\n \* \* enum classes\n \* \* annotation classes\n \* Signatures of exported declarations must only contain "exportable" types:\n \* \* `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n \* \* `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n \* \* `Array<exportable-type>`\n \* \* Function types with exportable parameters and return types\n \* \* `external` or `@JsExport` classes and interfaces\n \* \* Nullable counterparts of types above\n \* \* Unit return type. Must not be nullable\n \* This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n

\*\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class JsExport(),"/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\npackage kotlin.io\n\n/\*\*\n \* Prints the line separator to the standard output stream.\n \*\npublic expect fun println()\n\n/\*\*\n \* Prints the given [message] and the line separator to the standard output stream.\n \*\npublic expect fun println(message: Any?)\n\n/\*\*\n \* Prints the given [message] to the standard output stream.\n \*\npublic expect fun print(message: Any?)\n\n/\*\*\n \* Reads a line of input from the standard input stream and returns it,\n \* or throws a [RuntimeException] if EOF has already been reached when [readLn] is called.\n \* LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n \* Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n \*\n@SinceKotlin("1.6")\npublic expect fun readLn(): String\n\n/\*\*\n \* Reads a line of input from the standard input stream and returns it,\n \* or return `null` if EOF has already been reached when [readLnOrNull] is called.\n \* LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n \* Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n \*\n@SinceKotlin("1.6")\npublic expect fun readLnOrNull(): String?\n\ninternal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\ninternal expect interface Serializable\n","/\*\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the



```

license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n *
Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n *
@param T the type of element being iterated over. The iterator is covariant in its element type.\n */\npublic interface
Iterable<out T> {\n /**\n * Returns an iterator over the elements of this object.\n */\n public operator fun
iterator(): Iterator<T>}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of
elements that can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type
of element being iterated over. The mutable iterator is invariant in its element type.\n */\npublic interface
MutableIterable<out T> : Iterable<T> {\n /**\n * Returns an iterator over the elements of this sequence that
supports removing elements during iteration.\n */\n override fun iterator(): MutableIterator<T>}\n\n/**\n * A
generic collection of elements. Methods in this interface support only read-only access to the collection;\n *
read/write access is supported through the [MutableCollection] interface.\n * @param E the type of elements
contained in the collection. The collection is covariant in its element type.\n */\npublic interface Collection<out E> :
Iterable<E> {\n // Query Operations\n /**\n * Returns the size of the collection.\n */\n public val size:
Int\n\n /**\n * Returns `true` if the collection is empty (contains no elements), `false` otherwise.\n */\n
public fun isEmpty(): Boolean\n\n /**\n * Checks if the specified element is contained in this collection.\n */\n
public operator fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator():
Iterator<E>\n\n // Bulk Operations\n /**\n * Checks if all elements in the specified collection are contained in
this collection.\n */\n public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean}\n\n/**\n * A
generic collection of elements that supports adding and removing elements.\n */\n * @param E the type of
elements contained in the collection. The mutable collection is invariant in its element type.\n */\npublic interface
MutableCollection<E> : Collection<E>, MutableIterable<E> {\n // Query Operations\n override fun iterator():
MutableIterator<E>\n\n // Modification Operations\n /**\n * Adds the specified element to the collection.\n */\n
*\n * @return `true` if the element has been added, `false` if the collection does not support duplicates\n * and
the element is already contained in the collection.\n */\n public fun add(element: E): Boolean\n\n /**\n *
Removes a single instance of the specified element from this\n * collection, if it is present.\n */\n * @return
`true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n
public fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of
the specified collection to this collection.\n */\n * @return `true` if any of the specified elements was added to
the collection, `false` if the collection was not modified.\n */\n public fun addAll(elements: Collection<E>):
Boolean\n\n /**\n * Removes all of this collection's elements that are also contained in the specified
collection.\n */\n * @return `true` if any of the specified elements was removed from the collection, `false` if
the collection was not modified.\n */\n public fun removeAll(elements: Collection<E>): Boolean\n\n /**\n *
Retains only the elements in this collection that are contained in the specified collection.\n */\n * @return
`true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n
public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n */\n
public fun clear(): Unit}\n\n/**\n * A generic ordered collection of elements. Methods in this interface
support only read-only access to the list;\n * read/write access is supported through the [MutableList] interface.\n *
@param E the type of elements contained in the list. The list is covariant in its element type.\n */\npublic interface
List<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty():
Boolean\n\n override fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator():
Iterator<E>\n\n // Bulk Operations\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>):
Boolean\n\n // Positional Access Operations\n /**\n * Returns the element at the specified index in the list.\n */\n
*\n * @return the element at the specified index in the list.\n */\n public operator fun get(index: Int): E\n\n // Search Operations\n /**\n * Returns the index of the first
occurrence of the specified element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n
*\n * @return the index of the first occurrence of the specified element in the list, or -1 if the specified\n *
element is not contained in the list.\n */\n public fun indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last
occurrence of the specified element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n
*\n * @return the index of the last occurrence of the specified element in the list, or -1 if the specified\n *
element is not contained in the list.\n */\n public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n /**\n * Returns a list
iterator over the elements in this list (in proper sequence).\n */\n * @return a list iterator over the elements in this list (in proper sequence).\n */\n
public fun listIterator(): ListIterator<E>}\n\n

```

```

/**\n * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n
*\n public fun listIterator(index: Int): ListIterator<E>\n // View\n /**\n * Returns a view of the portion
of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n * The returned list is backed
by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n *\n *
Structural changes in the base list make the behavior of the view undefined.\n */\n public fun
subList(fromIndex: Int, toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered collection of elements that supports
adding and removing elements.\n * @param E the type of elements contained in the list. The mutable list is invariant
in its element type.\n */\n public interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification
Operations\n /**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the
list is always modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n
override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the
elements of the specified collection to the end of this list.\n *\n * The elements are appended in the order they
appear in the [elements] collection.\n *\n * @return `true` if the list was changed as the result of the
operation.\n */\n override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the
elements of the specified collection [elements] into this list at the specified [index].\n *\n * @return `true` if the
list was changed as the result of the operation.\n */\n public fun addAll(index: Int, elements: Collection<E>):
Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n\n override fun retainAll(elements:
Collection<E>): Boolean\n\n override fun clear(): Unit\n\n // Positional Access Operations\n /**\n * Replaces
the element at the specified position in this list with the specified element.\n *\n * @return the element
previously at the specified position.\n */\n public operator fun set(index: Int, element: E): E\n\n /**\n *
Inserts an element into the list at the specified [index].\n */\n public fun add(index: Int, element: E): Unit\n\n
/**\n * Removes an element at the specified [index] from the list.\n *\n * @return the element that has been
removed.\n */\n public fun removeAt(index: Int): E\n\n // List Iterators\n override fun listIterator():
MutableListIterator<E>\n\n override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n override
fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n * A generic unordered collection of elements
that does not support duplicate elements.\n * Methods in this interface support only read-only access to the set;\n *
read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements contained in
the set. The set is covariant in its element type.\n */\n public interface Set<out E> : Collection<E> {\n // Query
Operations\n\n override val size: Int\n\n override fun isEmpty(): Boolean\n\n override fun contains(element:
@UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n override fun
containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic unordered collection of
elements that does not support duplicate elements, and supports\n * adding and removing elements.\n * @param E
the type of elements contained in the set. The mutable set is invariant in its element type.\n */\n public interface
MutableSet<E> : Set<E>, MutableCollection<E> {\n // Query Operations\n\n override fun iterator():
MutableIterator<E>\n\n // Modification Operations\n\n /**\n * Adds the specified element to the set.\n *\n *
@return `true` if the element has been added, `false` if the element is already contained in the set.\n */\n
override fun add(element: E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification
Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n\n override fun removeAll(elements:
Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear():
Unit\n}\n\n/**\n * A collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n *
the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * Methods
in this interface support only read-only access to the map; read-write access is supported through\n * the
[MutableMap] interface.\n * @param K the type of map keys. The map is invariant in its key type, as it\n * can
accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\n * @param V the type of map
values. The map is covariant in its value type.\n */\n public interface Map<K, out V> {\n // Query Operations\n
/**\n * Returns the number of key/value pairs in the map.\n */\n public val size: Int\n\n /**\n * Returns
`true` if the map is empty (contains no elements), `false` otherwise.\n */\n public fun isEmpty(): Boolean\n\n
/**\n * Returns `true` if the map contains the specified [key].\n */\n public fun containsKey(key: K):

```

```

Boolean\n\n /**\n * Returns `true` if the map maps one or more keys to the specified [value].\n *\n public
fun containsValue(value: @UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the
given [key], or `null` if such a key is not present in the map.\n *\n public operator fun get(key: K): V?\n\n
/**\n * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the
map.\n *\n * @since JDK 1.8\n *\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun
getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n // See default implementation in JDK
sources\n throw NotImplementedError()\n }\n\n // Views\n /**\n * Returns a read-only [Set] of all keys
in this map.\n *\n public val keys: Set<K>\n\n /**\n * Returns a read-only [Collection] of all values in this
map. Note that this collection may contain duplicate values.\n *\n public val values: Collection<V>\n\n /**\n
* Returns a read-only [Set] of all key/value pairs in this map.\n *\n public val entries: Set<Map.Entry<K,
V>>\n\n /**\n * Represents a key/value pair held by a [Map].\n *\n public interface Entry<out K, out V>
{\n /**\n * Returns the key of this key/value pair.\n *\n public val key: K\n\n /**\n *
Returns the value of this key/value pair.\n *\n public val value: V\n }\n\n /**\n * A modifiable
collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value
corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * @param K the type
of map keys. The map is invariant in its key type.\n * @param V the type of map values. The mutable map is
invariant in its value type.\n *\n public interface MutableMap<K, V> : Map<K, V> {\n // Modification
Operations\n /**\n * Associates the specified [value] with the specified [key] in the map.\n *\n * @return
the previous value associated with the key, or `null` if the key was not present in the map.\n *\n public fun
put(key: K, value: V): V?\n\n /**\n * Removes the specified key and its corresponding value from this map.\n
*\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n *\n
public fun remove(key: K): V?\n\n /**\n * Removes the entry for the specified key only if it is mapped to the
specified value.\n *\n * @return true if entry was removed\n *\n @SinceKotlin("1.1")\n
@PlatformDependent\n public fun remove(key: K, value: V): Boolean {\n // See default implementation in
JDK sources\n return true\n }\n\n // Bulk Modification Operations\n /**\n * Updates this map with
key/value pairs from the specified map [from].\n *\n public fun putAll(from: Map<out K, V>): Unit\n\n /**\n
* Removes all elements from this map.\n *\n public fun clear(): Unit\n\n // Views\n /**\n * Returns a
[MutableSet] of all keys in this map.\n *\n override val keys: MutableSet<K>\n\n /**\n * Returns a
[MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n *\n
override val values: MutableCollection<V>\n\n /**\n * Returns a [MutableSet] of all key/value pairs in this
map.\n *\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n /**\n * Represents a
key/value pair held by a [MutableMap].\n *\n public interface MutableEntry<K, V> : Map.Entry<K, V> {\n
/**\n * Changes the value associated with the key of this entry.\n *\n * @return the previous value
corresponding to the key.\n *\n public fun setValue(newValue: V): V\n }\n\n /* Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n // Auto-generated file. DO NOT
EDIT!\n\n package kotlin.collections\n\n /** An iterator over a sequence of values of type `Byte`. *\n public abstract
class ByteIterator : Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in
the sequence without boxing. *\n public abstract fun nextByte(): Byte\n\n /** An iterator over a sequence of
values of type `Char`. *\n public abstract class CharIterator : Iterator<Char> {\n override final fun next() =
nextChar()\n\n /** Returns the next value in the sequence without boxing. *\n public abstract fun nextChar():
Char\n\n /** An iterator over a sequence of values of type `Short`. *\n public abstract class ShortIterator :
Iterator<Short> {\n override final fun next() = nextShort()\n\n /** Returns the next value in the sequence without
boxing. *\n public abstract fun nextShort(): Short\n\n /** An iterator over a sequence of values of type `Int`.
*\n public abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the
next value in the sequence without boxing. *\n public abstract fun nextInt(): Int\n\n /** An iterator over a
sequence of values of type `Long`. *\n public abstract class LongIterator : Iterator<Long> {\n override final fun
next() = nextLong()\n\n /** Returns the next value in the sequence without boxing. *\n public abstract fun

```

```

nextLong(): Long\n\n/** An iterator over a sequence of values of type `Float`. */\npublic abstract class
FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the
sequence without boxing. */\n public abstract fun nextFloat(): Float\n\n/** An iterator over a sequence of
values of type `Double`. */\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() =
nextDouble()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextDouble(): Double\n\n/** An iterator over a sequence of values of type `Boolean`. */\npublic abstract class
BooleanIterator : Iterator<Boolean> {\n override final fun next() = nextBoolean()\n\n /** Returns the next value
in the sequence without boxing. */\n public abstract fun nextBoolean(): Boolean\n\n"/**\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`. \n * @property
step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first:
Char, last: Char, val step: Int) : CharIterator() {\n private val finalElement: Int = last.code\n private var hasNext:
Boolean = if (step > 0) first <= last else first >= last\n private var next: Int = if (hasNext) first.code else
finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextChar(): Char {\n val value
= next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n
hasNext = false\n }\n else {\n next += step\n }\n return value.toChar()\n }\n}\n\n/**\n *
An iterator over a progression of values of type `Int`. \n * @property step the number by which the value is
incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator()
{\n private val finalElement: Int = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >=
last\n private var next: Int = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean =
hasNext\n\n override fun nextInt(): Int {\n val value = next\n if (value == finalElement) {\n if
(!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next +=
step\n }\n return value\n }\n}\n\n/**\n * An iterator over a progression of values of type `Long`. \n *
@property step the number by which the value is incremented on each step.\n */\ninternal class
LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n private val finalElement: Long
= last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Long = if
(hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextLong():
Long {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw
kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n
return value\n }\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`. \n */\npublic open class
CharProgression\n internal constructor\n (\n start: Char,\n endInclusive: Char,\n step: Int\n) : Iterable<Char> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Int.MIN_VALUE to avoid overflow on negation.")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The last element in the progression.\n */\n public val last:
Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()\n\n /**\n * The step of the
progression.\n */\n public val step: Int = step\n\n override fun iterator(): CharIterator =
CharProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n */\n public fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is
CharProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step ==
other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.code + last.code) +
step)\n\n override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step $-

```

```

step})\n\n companion object {\n /**\n * Creates CharProgression within the specified bounds of a
closed range.\n *\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd]
value not excluding it, with the specified [step].\n *\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun
fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart,
rangeEnd, step)\n } \n\n /**\n * A progression of values of type `Int`.\n */\n public open class IntProgression\n internal constructor\n (start: Int, endInclusive: Int, step: Int\n) : Iterable<Int> {\n
init {\n if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step ==
Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid
overflow on negation.")\n } \n\n /**\n * The first element in the progression.\n */\n public val first: Int =
start\n\n /**\n * The last element in the progression.\n */\n public val last: Int =
getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n public
val step: Int = step\n\n override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n /**\n *
Checks if the progression is empty.\n */\n * Progression with a positive step is empty if its first element is
greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last
element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun
equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty() ||\n first ==
other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1
else (31 * (31 * first + last) + step)\n\n override fun toString(): String = if (step > 0) "$first..$last step $step"
else "$first downTo $last step $(-step)"\n\n companion object {\n /**\n * Creates IntProgression within the
specified bounds of a closed range.\n *\n * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n *\n * In order to go backwards the [step]
must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun
fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression =
IntProgression(rangeStart, rangeEnd, step)\n } \n\n /**\n * A progression of values of type `Long`.\n */\n public
open class LongProgression\n internal constructor\n (start: Long, endInclusive: Long, step: Long\n) : Iterable<Long> {\n
init {\n if (step == 0L) throw kotlin.IllegalArgumentException("Step
must be non-zero.")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be
greater than Long.MIN_VALUE to avoid overflow on negation.")\n } \n\n /**\n * The first element in the
progression.\n */\n public val first: Long = start\n\n /**\n * The last element in the progression.\n */\n public
val last: Long = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the
progression.\n */\n public val step: Long = step\n\n override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n */\n *
Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a
negative step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is
LongProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step ==
other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) +
(last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n override fun toString(): String = if (step > 0)
"$first..$last step $step" else "$first downTo $last step $(-step)"\n\n companion object {\n /**\n *
Creates LongProgression within the specified bounds of a closed range.\n *\n * The progression starts
with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n *\n
In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than
`Long.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Long,
rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n } \n\n /**\n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n package
kotlin.ranges\n\n /**\n * Represents a range of values (for example, numbers or characters).\n * See the [Kotlin

```

language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

```

public interface ClosedRange<T: Comparable<T>> {
 /** The minimum value in the range. */
 public val start: T
 /** The maximum value in the range (inclusive). */
 public val endInclusive: T
 /** Checks whether the specified [value] belongs to the range. */
 public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive
 /** Checks whether the range is empty. */
 /** The range is empty if its start value is greater than the end value. */
 public fun isEmpty(): Boolean = start > endInclusive
}

```

Copyright 2010-2015 JetBrains s.r.o. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```

package kotlin
/** The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java. */
public object Unit {
 override fun toString() = "kotlin.Unit"
}

```

Copyright 2010-2015 JetBrains s.r.o. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0> Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

```

package kotlin.annotation
import kotlin.annotation.AnnotationTarget
/** Contains the list of code elements which are the possible annotation targets */
public enum class AnnotationTarget {
 /** Class, interface or object, annotation class is also included */
 CLASS,
 /** Annotation class only */
 ANNOTATION_CLASS,
 /** Generic type parameter */
 TYPE_PARAMETER,
 /** Property */
 PROPERTY,
 /** Field, including property's backing field */
 FIELD,
 /** Local variable */
 LOCAL_VARIABLE,
 /** Value parameter of a function or a constructor */
 VALUE_PARAMETER,
 /** Constructor only (primary or secondary) */
 CONSTRUCTOR,
 /** Function (constructors are not included) */
 FUNCTION,
 /** Property getter only */
 PROPERTY_GETTER,
 /** Property setter only */
 PROPERTY_SETTER,
 /** Type usage */
 TYPE,
 /** Any expression */
 EXPRESSION,
 /** File */
 FILE,
 /** Type alias */
 TYPEALIAS
}
/** Contains the list of possible annotation's retentions. */
/** Determines how an annotation is stored in binary output. */
public enum class AnnotationRetention {
 /** Annotation isn't stored in binary output */
 SOURCE,
 /** Annotation is stored in binary output, but invisible for reflection */
 BINARY,
 /** Annotation is stored in binary output and visible for reflection (default retention) */
 RUNTIME
}
/** This meta-annotation indicates the kinds of code elements which are possible targets of an annotation. */
/** If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER]. */
/** @property allowedTargets list of allowed annotation targets */
@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
public annotation class Target(vararg val allowedTargets: AnnotationTarget)
/** This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true. */
/** @property value necessary annotation retention (RUNTIME, BINARY or SOURCE) */
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)
/** This meta-annotation determines that an annotation is applicable twice or more on a single code element */
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Repeatable
/** This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated documentation for the element to which the annotation is applied. */

```

```

/\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n"/\n *
Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the "License");\n *\n * you may not use this file except in compliance with the License.\n *\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing,\n *\n * software\n *\n * distributed under the License is distributed on an "AS IS" BASIS,\n *\n * WITHOUT WARRANTIES\n *\n * OR CONDITIONS OF ANY KIND, either express or implied.\n *\n * See the License for the specific language\n *\n * governing permissions and\n *\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n */\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method 'java.util.Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n */\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n val mod = a % b\n return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n val mod = a % b\n return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n */\n@suppress\n*/\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n */\n@suppress\n*/\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n else -> throw\n kotlin.IllegalArgumentException("Step is zero.")\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@JsName("arrayIterator")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n null -> {\n val arr: Array<dynamic> = array\n object : Iterator<dynamic> {\n var index = 0\n override fun hasNext() = index < arr.size\n override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")\n }\n }\n "BooleanArray" -> booleanArrayIterator(array)\n "ByteArray" -> byteArrayIterator(array)\n "ShortArray" -> shortArrayIterator(array)\n "CharArray" -> charArrayIterator(array)\n "IntArray" ->

```

```

intArrayIterator(array)\n \"LongArray\" -> longArrayIterator(array)\n \"FloatArray\" ->
floatArrayIterator(array)\n \"DoubleArray\" -> doubleArrayIterator(array)\n else -> throw
IllegalStateException(\"Unsupported type argument for arrayIterator:
$type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n var index = 0\n override fun hasNext() =
index < array.size\n override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n var index = 0\n override fun hasNext() = index
< array.size\n override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n var index = 0\n override fun hasNext()
= index < array.size\n override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class
PropertyMetadata(@JsName(\"callableName\") val name:
String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n if (c is String) {\n return c.substring(startIndex, endIndex)\n
} else {\n return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
}\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(@Suppress(\"UNUSED_PARAMETER\")
baseClass: JsClass<in Throwable>, instance: Throwable) {\n if (js(\"Error\").captureStackTrace) {\n // Using
uncropped stack traces due to KT-37563.\n // Precise stack traces are implemented in JS IR compiler and
stdlib\n js(\"Error\").captureStackTrace(instance);\n } else {\n instance.asDynamic().stack = js(\"new
Error()\").stack;\n }\n}\n\n@JsName(\"newThrowable\")\ninternal fun newThrowable(message: String?, cause:
Throwable?): Throwable {\n val throwable = js(\"new Error()\")\n throwable.message = if (jsTypeOf(message)
== \"undefined\") {\n if (cause != null) cause.toString() else null\n } else {\n message\n }\n throwable.cause = cause\n throwable.name = \"Throwable\"\n return
throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n override
fun equals(other: Any?): Boolean {\n return other is BoxedChar && c == other.c\n }\n override fun
hashCode(): Int {\n return c\n }\n override fun toString(): String {\n return
js(\"this.c\").unsafeCast<Char>().toString()\n }\n override fun compareTo(other: Int): Int {\n return
js(\"this.c - other\").unsafeCast<Int>()\n }\n @JsName(\"valueOf\")\n public fun valueOf(): Int {\n
return c\n }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n val typed
= js(\"Array\")(args.size)\n for (i in args.indices) {\n val arr = args[i]\n if (arr !is Array<*>) {\n

```



```

typed[i] = js("[]").slice.call(arr)\n } else {\n typed[i] = arr\n }\n }\n return
js("[]").concat.apply(js("[]"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n *\n * @PublishedApi\n * @JsName("arrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal fun <T>
arrayConcat(a: T, b: T): T {\n return concat(js("arguments"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property
default to arrayConcat.\n
 * @PublishedApi\n * @JsName("primitiveArrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n val args: Array<T> = js("arguments")\n if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n return concat(args)\n } else {\n var size = 0\n for (i in
args.indices) {\n size += args[i].asDynamic().length as Int\n }\n val result = js("new
a.constructor(size)")\n kotlin.copyArrayType(a, result)\n size = 0\n for (i in args.indices) {\n val
arr = args[i].asDynamic()\n for (j in 0 until arr.length) {\n result[size++] = arr[j]\n }\n }\n return result\n }\n}\n\n * @JsName("booleanArrayOf")\n * internal fun booleanArrayOf() =
withType("BooleanArray", js("[]").slice.call(arguments))\n}\n\n * @JsName("charArrayOf") // The arguments have
to be slice'd here because of Rhino (see KT-16974)\n * internal fun charArrayOf() = withType("CharArray", js("new
Uint16Array([]).slice.call(arguments))\n)\n}\n\n * @JsName("longArrayOf")\n * internal fun longArrayOf() =
withType("LongArray",
js("[]").slice.call(arguments))\n}\n\n * @JsName("withType")\n * @kotlin.internal.InlineOnly\n * internal inline fun
withType(type: String, array: dynamic): dynamic {\n array.`$type$` = type\n return array\n}\n\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Function corresponding to JavaScript's `typeof` operator\n
 * @kotlin.internal.InlineOnly\n * @Suppress("UNUSED_PARAMETER")\n * public inline fun jsTypeOf(a: Any?):
String = js("typeof a")\n}\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n * @file:Suppress("UNUSED_PARAMETER",
"NOTHING_TO_INLINE")\n * package kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n
*\n * @public inline fun <T> emptyArray(): Array<T> = js("[]")\n}\n\n * @library\n * public fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally\n}\n\n * @library\n * public fun doubleArrayOf(vararg elements: Double):
DoubleArray = definedExternally\n}\n\n * @library\n * public fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n}\n\n * @library\n * public fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n}\n\n * @library\n * public fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n}\n\n * @library\n * public fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n}\n\n * @library\n * public fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n}\n\n * @library\n * public fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n}\n\n * @library\n * public fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n}\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\n * @public actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n}\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode]
parameter is ignored.\n *\n * @public actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n}\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\n * @public actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n}\n\n * internal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n val srcLen: Int = src.length\n val dstLen: Int = dst.length\n var index: Int = 0\n while (index <
srcLen && index < dstLen) dst[index] = src[index++]\n return dst\n}\n\n * internal fun arrayCopyResize(source:

```

```

dynamic, newSize: Int, defaultValue: Any?): dynamic {
 val result = source.slice(0, newSize)
 copyArrayType(source, result)
 var index: Int = source.length
 if (newSize > index) {
 result.length =
 newSize
 while (index < newSize) result[index++] = defaultValue
 }
 return result
}

internal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {
 val result = array.slice()
 result.length += collection.size
 copyArrayType(array, result)
 var index: Int = array.length
 for (element in collection) result[index++] = element
 return result
}

internal fun <T> fillFromCollection(dst: dynamic,
startIndex: Int, collection: Collection<T>): dynamic {
 var index = startIndex
 for (element in collection)
 dst[index++] = element
 return dst
}

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
 if (from.`$type$` !== undefined) {
 to.`$type$` = from.`$type$`
 }
}

internal inline fun jsIsType(obj:
dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass)

/*
 * Copyright 2010-2021 JetBrains s.r.o. and
 * Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
 * can be found in the license/LICENSE.txt file.
 */
package kotlin

/**
 * Creates a Char with the specified
 * [code].
 */
@sample samples.text.Chars.charFromCode

@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public actual inline fun Char(code: UShort): Char {
 return code.toInt().toChar()
}

/*
 * Copyright 2010-2018
 * JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the
 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.coroutines

import kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED
@SinceKotlin("1.3")
@JsName("CoroutineImpl")
internal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {
 protected var state = 0
 protected var exceptionState = 0
 protected var result: Any? = null
 protected var exception: Throwable? = null
 protected var finallyPath: Array<Int>? = null

 public override val context: CoroutineContext = resultContinuation.context
 private var intercepted_: Continuation<Any?>? = null

 public fun intercepted(): Continuation<Any?> =
 intercepted_ ?:
 (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)
 .also { intercepted_ = it }

 override fun resumeWith(result: Result<Any?>) {
 var current = this
 var currentResult: Any? =
 result.getOrNull()
 var currentException: Throwable? = result.exceptionOrNull()
 // This loop unrolls
 recursion in current.resumeWith(param) to make saner and shorter stack traces on resume
 while (true) {
 with(current) {
 val completion = resultContinuation
 // Set result and exception fields in
 the current continuation
 if (currentException == null) {
 this.result = currentResult
 } else {
 state = exceptionState
 exception = currentException
 }
 }
 try {
 val outcome = doResume()
 if (outcome === COROUTINE_SUSPENDED)
 return
 currentResult = outcome
 currentException = null
 } catch (exception:
dynamic) {
 // Catch all exceptions
 currentResult = null
 currentException =
 exception.unsafeCast<Throwable>()
 }
 releaseIntercepted() // this state machine instance is
 terminating
 if (completion is CoroutineImpl) {
 // unrolling recursion via loop
 current = completion
 } else {
 // top-level completion reached -- invoke and return
 currentException?.let {
 completion.resumeWithException(it)
 } ?:
 completion.resume(currentResult)
 return
 }
 }
 private fun
 releaseIntercepted() {
 val intercepted = intercepted_
 if (intercepted != null && intercepted !== this) {
 context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)
 }
 this.intercepted_
 = CompletedContinuation // just in case
 }
 protected abstract fun doResume(): Any?
 }

 internal object
 CompletedContinuation : Continuation<Any?> {
 override val context: CoroutineContext
 get() =
 error("This continuation is already complete")
 override fun resumeWith(result: Result<Any?>) {
 error("This continuation is already complete")
 }
 override fun toString(): String = "This continuation is
 already complete"
 }

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */
@file:Suppress("UNCHECKED_CAST",
"RedundantVisibilityModifier")
package kotlin
import kotlin.contracts.*
import

```

```

kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n *^\n@SinceKotlin("1.3")\n@JvmInline\npublic
value class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value: Any?)\n :
Serializable {\n // discovery\n\n /**\n * Returns `true` if this instance represents a successful outcome.\n *
In this case [isFailure] returns `false`.\n *^\n public val isSuccess: Boolean get() = value !is Failure\n\n /**\n
* Returns `true` if this instance represents a failed outcome.\n * In this case [isSuccess] returns `false`.\n *^\n
public val isFailure: Boolean get() = value is Failure\n\n // value & exception retrieval\n\n /**\n * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n * if it is
[failure][Result.isFailure].\n *^\n * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n
* `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n *^\n @InlineOnly\n public inline fun
getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n\n /**\n *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n * if it is
[success][isSuccess].\n *^\n * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n *^\n public fun exceptionOrNull(): Throwable? =\n when (value) {\n is Failure ->
value.exception\n else -> null\n }\n\n /**\n * Returns a string `Success(v)` if this instance represents
[success][Result.isSuccess]\n * where `v` is a string representation of the value or a string `Failure(x)` if\n * it
is [failure][isFailure] where `x` is a string representation of the exception.\n *^\n public override fun toString():
String =\n when (value) {\n is Failure -> value.toString() // "Failure($exception)"\n else ->
"Success($value)"\n }\n\n // companion with constructors\n\n /**\n * Companion object for [Result]
class that contains its constructor functions\n * [success] and [failure].\n *^\n public companion object {\n
/**\n * Returns an instance that encapsulates the given [value] as successful value.\n *^\n
@Suppress("INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("success")\n public
inline fun <T> success(value: T): Result<T> =\n Result(value)\n\n /**\n * Returns an instance that
encapsulates the given [Throwable] [exception] as failure.\n *^\n
@Suppress("INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("failure")\n public
inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n
internal class Failure(\n @JvmField\n val exception: Throwable\n): Serializable {\n override fun
equals(other: Any?): Boolean = other is Failure && exception == other.exception\n override fun hashCode():
Int = exception.hashCode()\n override fun toString(): String = "Failure($exception)"\n }\n\n/**\n *
Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n
*^\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun createFailure(exception: Throwable): Any =\n
Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n
* inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting
logic here (if needed).\n *^\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun Result<*>.throwOnFailure() {\n
if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its
encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the
[block] function execution and encapsulating it as a failure.\n *^\n@InlineOnly\n@SinceKotlin("1.3")\npublic
inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch
(e: Throwable) {\n Result.failure(e)\n }\n}\n\n/**\n * Calls the specified function [block] with `this` value as
its receiver and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception
that was thrown from the [block] function execution and encapsulating it as a failure.\n
*^\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n
return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n//
extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or
throws the encapsulated [Throwable] exception\n * if it is [failure][Result.isFailure].\n *^\n * This function is a
shorthand for `getOrElse { throw it }` (see [getOrElse]).\n *^\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline
fun <T> Result<T>.getOrThrow(): T {\n throwOnFailure()\n return value as T\n}\n\n/**\n * Returns the

```

encapsulated value if this instance represents [success][Result.isSuccess] or the\n \* result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\n \* This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n contract {\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> value as T\n else -> onFailure(exception)\n }\n}\n`\n \* Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n \* [defaultValue] if it is [failure][Result.isFailure].\n \* This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.getOrElse(defaultValue: R): R {\n if (isFailure) return defaultValue\n return value as T\n}\n`\n \* Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess]\n \* or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.fold(\n onSuccess: (value: T) -> R,\n onFailure: (exception: Throwable) -> R): R {\n contract {\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> onSuccess(value as T)\n else -> onFailure(exception)\n }\n}\n`\n // transformation\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n \* if this instance represents [success][Result.isSuccess] or the\n \* original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [mapCatching] for an alternative that encapsulates exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when {\n isSuccess -> Result.success(transform(value as T))\n else -> Result(value)\n }\n}\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n \* if this instance represents [success][Result.isSuccess] or the\n \* original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [map] for an alternative that rethrows exceptions from `transform` function.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n}\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [recoverCatching] for an alternative that encapsulates exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n}\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [recover] for an alternative that rethrows exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n}\n`\n // "peek" onto value/exception and pipe\n \* Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n \* Returns the original `Result` unchanged.\n

```

*\/n@InlineOnly\/n@SinceKotlin("1.3")\/npublic inline fun <T> Result<T>.onFailure(action: (exception:
Throwable) -> Unit): Result<T> {\/n contract {\/n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\/n
}\/n exceptionOrNull()?.let { action(it) }\/n return this\/n}\/n\/n**\/n * Performs the given [action] on the
encapsulated value if this instance represents [success][Result.isSuccess].\/n * Returns the original `Result`
unchanged.\/n *\/n@InlineOnly\/n@SinceKotlin("1.3")\/npublic inline fun <T> Result<T>.onSuccess(action: (value:
T) -> Unit): Result<T> {\/n contract {\/n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\/n }\/n if
(isSuccess) action(value as T)\/n return this\/n}\/n\/n// -----\/n"/**\/n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\/n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\/n *\/n\/npackage kotlin.coroutines\/n\/nimport
kotlin.contracts.*\/nimport kotlin.coroutines.intrinsics.*\/nimport kotlin.internal.InlineOnly\/n\/n**\/n * Interface
representing a continuation after a suspension point that returns a value of type `T`.\/n
*\/n@SinceKotlin("1.3")\/npublic interface Continuation<in T> {\/n /**\/n * The context of the coroutine that
corresponds to this continuation.\/n *\/n public val context: CoroutineContext\/n\/n /**\/n * Resumes the
execution of the corresponding coroutine passing a successful or failed [result] as the\/n * return value of the last
suspension point.\/n *\/n public fun resumeWith(result: Result<T>)\/n}\/n\/n**\/n * Classes and interfaces marked
with this annotation are restricted when used as receivers for extension\/n * `suspend` functions. These `suspend`
extensions can only invoke other member or extension `suspend` functions on this particular\/n * receiver and are
restricted from calling arbitrary suspension functions.\/n
*\/n@SinceKotlin("1.3")\/n@Target(AnnotationTarget.CLASS)\/n@Retention(AnnotationRetention.BINARY)\/npu
blic annotation class RestrictsSuspension\/n\/n**\/n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point.\/n *\/n@SinceKotlin("1.3")\/n@InlineOnly\/npublic inline
fun <T> Continuation<T>.resume(value: T): Unit =\/n resumeWith(Result.success(value))\/n}\/n**\/n * Resumes the
execution of the corresponding coroutine so that the [exception] is re-thrown right after the\/n * last suspension
point.\/n *\/n@SinceKotlin("1.3")\/n@InlineOnly\/npublic inline fun <T>
Continuation<T>.resumeWithException(exception: Throwable): Unit =\/n
resumeWith(Result.failure(exception))\/n}\/n**\/n * Creates a [Continuation] instance with the given [context] and
implementation of [resumeWith] method.\/n *\/n@SinceKotlin("1.3")\/n@InlineOnly\/npublic inline fun <T>
Continuation(\/n context: CoroutineContext,\/n crossinline resumeWith: (Result<T>) -> Unit)\/n): Continuation<T>
=\/n object : Continuation<T> {\/n override val context: CoroutineContext\/n get() = context\/n\/n
override fun resumeWith(result: Result<T>) =\/n resumeWith(result)\/n }\/n}\/n**\/n * Creates a coroutine
without a receiver and with result type [T].\/n * This function creates a new, fresh instance of suspendable
computation every time it is invoked.\/n *\/n * To start executing the created coroutine, invoke `resume(Unit)` on the
returned [Continuation] instance.\/n * The [completion] continuation is invoked when the coroutine completes with a
result or an exception.\/n * Subsequent invocation of any resume function on the resulting continuation will produce
an [IllegalStateException].\/n *\/n@SinceKotlin("1.3")\/n@Suppress("UNCHECKED_CAST")\/npublic fun <T>
(suspend () -> T).createCoroutine(\/n completion: Continuation<T>)\/n): Continuation<Unit> =\/n
SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\/n}\/n**\/n
* Creates a coroutine with receiver type [R] and result type [T].\/n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\/n *\/n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\/n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\/n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException].\/n
*\/n@SinceKotlin("1.3")\/n@Suppress("UNCHECKED_CAST")\/npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\/n receiver: R,\/n completion: Continuation<T>)\/n): Continuation<Unit> =\/n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\/n}\/n**\/n * Starts a coroutine without a receiver and with result type [T].\/n * This
function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\/n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception.\/n

```

```

*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current
continuation instance inside suspend functions and suspends\n * the currently running coroutine.\n */\n * In this
function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
in\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\n *
from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block,
InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -
>\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**\n *
Returns the context of the current coroutine.\n */\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic suspend inline
val coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError("Implemented as
intrinsic")\n }\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.\nimport kotlin.internal.InlineOnly\n\n/**\n *
Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first
suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or
[COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when
the coroutine completes with a result or an exception.\n */\n * The coroutine is started directly in the invoker's thread
without going through the [ContinuationInterceptor] that might\n * be present in the completion's
[CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n
*\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <T> (suspend () ->
T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>)\n): Any? =
this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result
type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if
it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion]
continuation is invoked when the coroutine completes with a result or an exception.\n */\n * The coroutine is started
directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the
completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is
established.\n */\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn]
to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() ->
T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n completion: Continuation<T>)\n): Any? =
this.asDynamic()(receiver, completion, false)\n\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -
> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n param: P,\n completion: Continuation<T>)\n):
Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without
receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every
time it is invoked.\n */\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned
[Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with result or

```

exception.

\* This function returns unintercepted continuation.

\* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `[ContinuationInterceptor]` that might be present in the completion's `[CoroutineContext]`.

\* It is the invoker's responsibility to ensure that a proper invocation context is established.

\* Note that `[completion]` of this function may get invoked in an arbitrary context.

\* `[Continuation.intercepted]` can be used to acquire the intercepted continuation.

\* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and `[completion]` happens in the invocation context established by `[ContinuationInterceptor]`.

\* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
 completion: Continuation<T>): Continuation<Unit> =
 // Kotlin/JS suspend lambdas have an extra parameter
 `suspended`
 if (this.asDynamic().length == 2) {
 // When `suspended` is true the continuation is created,
 but not executed
 this.asDynamic()(completion, true)
 } else {
 createCoroutineFromSuspendFunction(completion) {
 this.asDynamic()(completion)
 }
 }

```

\* Creates unintercepted coroutine with receiver type `[R]` and result type `[T]`.

\* This function creates a new, fresh instance of suspendable computation every time it is invoked.

\* To start executing the created coroutine, invoke `resume(Unit)` on the returned `[Continuation]` instance.

\* The `[completion]` continuation is invoked when coroutine completes with result or exception.

\* This function returns unintercepted continuation.

\* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `[ContinuationInterceptor]` that might be present in the completion's `[CoroutineContext]`.

\* It is the invoker's responsibility to ensure that a proper invocation context is established.

\* Note that `[completion]` of this function may get invoked in an arbitrary context.

\* `[Continuation.intercepted]` can be used to acquire the intercepted continuation.

\* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and `[completion]` happens in the invocation context established by `[ContinuationInterceptor]`.

\* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(
 receiver: R, completion: Continuation<T>):
 Continuation<Unit> =
 // Kotlin/JS suspend lambdas have an extra parameter `suspended`
 if (this.asDynamic().length == 3) {
 // When `suspended` is true the continuation is created, but not executed
 this.asDynamic()(receiver, completion, true)
 } else {
 createCoroutineFromSuspendFunction(completion) {
 this.asDynamic()(receiver, completion)
 }
 }

```

\* Intercepts this continuation with `[ContinuationInterceptor]`.

\* This function shall be used on the immediate result of `[createCoroutineUnintercepted]` or `[suspendCoroutineUninterceptedOrReturn]`, in which case it checks for `[ContinuationInterceptor]` in the continuation's `[context][Continuation.context]`, invokes `[ContinuationInterceptor.interceptContinuation]`, caches and returns the result.

\* If this function is invoked on other `[Continuation]` instances it returns `this` continuation unchanged.

```

@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
 (this as? CoroutineImpl)?.intercepted() ?:
 this
private inline fun <T> createCoroutineFromSuspendFunction(
 completion: Continuation<T>,
 crossinline block: () -> Any?): Continuation<Unit> {
 @Suppress("UNCHECKED_CAST")
 return object : CoroutineImpl(completion as Continuation<Any?>) {
 override fun doResume(): Any? {
 exception?.let { throw it }
 return block()
 }
 }
}

```

\* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.

\* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

\* `package kotlin.js` // Mirrors signature from JS IR

`BE` // Used for

```

js.translator/testData/box/number/mulInt32.kt
@library
@JsName("imulEmulated")
@Suppress("UNUSED_PARAMETER")
internal fun imul(x: Int, y: Int): Int =
 definedExternally
@Suppress("NOTHING_TO_INLINE")
internal inline fun isArrayish(o: dynamic) =
 js("Kotlin").isArrayish(o)

```

\* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.

\* Use of this source code is governed by the Apache 2.0 license that can be found in the

```

license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n/*\n\npublic open class MyException : Exception {\n constructor() : super()\n\n constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) :
super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n*/\n\n// TODO: remove primary
constructors, make all secondary\nKT-22055\n\n@Suppress(\n\n"USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual
constructor(cause: Throwable?) : this(undefin
ed,
cause)\n}\n\n@Suppress(\n\n"USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?)
: RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:
String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n}\n\n\npublic actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class UnsupportedOperationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class NumberFormatException actual
constructor(message: String?) : IllegalArgumentException(message) {\n actual constructor() :
this(null)\n}\n\n\npublic actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() :
this(null)\n}\n\n\npublic actual open class AssertionError\n\n@SinceKotlin(\n\n"1.4")\n\nconstructor(message: String?,
cause: Throwable?) : Error(message, cause) {\n actual constructor() : this(null)\n constructor(message: String?) :
this(message, null)\n actual constructor(message: Any?) : this(message.toString(), message as
Throwable)\n}\n\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\n\n@SinceKotlin(\n\n"1.3")\n\npublic actual open
class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n actual
constructor() : this(null)\n}\n\n\npublic actual open class NoWhenBranchMatchedException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class UninitializedPropertyAccessException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\n", /*\n\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is
governed by the Apache 2.0 license\n\n * that can be found in the license/LICENSE.txt file.\n\n
*/\n\n\n@file:Suppress(\n\n"UNUSED_PARAMETER")\n\n\npackage kotlin.js\n\n\n@kotlin.internal.InlineOnly\n\ninternal
inline fun jsDeleteProperty(obj: Any, property: Any) {\n js(\n\n"delete

```



```

obj[property]\")\n)\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\njs(\"lhs | rhs\").unsafeCast<Int>()\",\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the\n[sign] value.\n */\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic actual\nfun Double.withSign(sign: Double): Double {\n val thisSignBit =\njs(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\n val newSignBit =\njs(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -\nthis}\",\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\nthis source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n */\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToBits\")\npublic actual fun Double.toBits(): Long =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout,\n * preserving `NaN` values exact layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToRawBits\")\npublic actual fun Double.toRawBits(): Long =\ndefinedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits:\nLong): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation\nof the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit\nlayout.\n */\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so\nsome [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToBits\")\npublic actual fun Float.toBits(): Int =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according\nto the IEEE 754 floating-point \"single format\" bit layout,\n * preserving `NaN` values exact layout.\n */\n * Note\nthat in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so\nsome [Float] values\nmay overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToRawBits\")\npublic actual fun Float.toRawBits(): Int =\ndefinedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits:\nInt): Float =\njs(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal\ninline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\n\ninternal inline\nval Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\n\ninternal inline val Long.high: Int get()\n= this.asDynamic().getHighBits().unsafeCast<Int>()\n\",\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n */\n */\nimport kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T :\nAnnotation> KClass<*>.findAssociatedObject(@Suppress(\"UNUSED_PARAMETER\") annotationClass:\nKClass<T>): Any? {\n // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\nreturn null}\n\",\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\nthis source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n */\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n */\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Long.toString(radix: Int): String =\nasDynamic().toString(checkRadix(radix))\",\"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming\nLanguage contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\n */\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the\nGenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n// 1343 ranges

```

```
totally\nprivate object Category {\n val decodedRangeStart: IntArray\n val decodedRangeCategory: IntArray\n\n init {\n val toBase64 =
 \"\"ABCDEF GHIJK LMNOPQR STUVWXY Zabcdefghijklmnopqr stuvwxyz0123456789+/\n val fromBase64 =
 IntArray(128)\n for (i in toBase64.indices) {\n fromBase64[toBase64[i].code] = i\n }\n \n //
 rangeStartDiff.length = 1482\n val rangeStartDiff =
 \"\"gBCFEDCKCDCaDDaDBhBCEEDDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJI
 CBbSEM OFGERwDEDDDDDECEFCRBJhBFDCYFFCCzBvBjBBFC3BohDbmBDGpBDDCtBBJbEECLGDFC
 LDCgBBKVKEDiDDHCFECECKCEODBebC5CLBOKhBJDDDDWEBHF CFCPBZDEL1BVBSLPBgBB2BDB
 DICFBHKCKCPDBHEDWBHEDDDDEDEDIBDGDCKCCGDDDCGECCWBFMDDCDEDDCHDDHKDDDBK
 DBHFCWBF GFDDBDFEDBPDDKCHBGDCHEDWBF GFDCEDEDBHDDGDCKCGJEGDBFDDFD DDDDDME
 FDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHECCKDNCCFC
 oBEDECFDDDDHDCKJBGDCSDYBJEHBFDDEBIGKDCMuBFHEBGBIBKCKbFBFBXEIFJDFDGCKCEgB
 BDPEDGKKGECIBkBEObDFFLBkBBIBEFECIBrBCEBEGDBKGGDDDDDDCHDENDCFEKDDIBDDFrBCD
 pKBECGEECPBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRbaCDrCDDIHNBEDLSDCJSCMLFC
 CM0BDHGF LBFDDKKGGEFDDBKgJBB1BHfChBDFmCKfDDDDDDCGDCFDKcCFLsBEaGKBDiBXDDD1
 BDGDEIGJEKKGHGBGCMF/BEbvCEEDDFHEKHKJDDDeDDGDkSBFEDCIEkBIICCFDKDDKeGCJHrBCDI
 IDBNBHEBEFDBFsB/BNBiB1B6BBF1EiIdJGCGCIIIGCGCIIIOCIIIIDFEDDBFEDDDDEBDIFDDFEDBLF
 GCEEICFBjCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPPFDEDEBFFHECEBEEDFBEDDQjBCEDEFFC
 CJHBeEEfsIIEUCHCxCBeZoBGICZLV8BuCW3FBjB2BivDB4HOesBFCfKQgJEW/BEgBCiIwBVCGnBCgBBp
 DvBBuBEDBHEFGCCjDCGEDCFcfIBDDF4BHCObXJHBHBBHBBHBBHBBHBBgBCECGHGEDI FBKCEDM
 EtBaB5CM2GaMEDDCKCGFCJEDFDDDC2CDDDB6CDCFrBB+CDEKgbkBMQfBKeIBPgBKnBPgKguGgC9
 vUDVB3jBD3BjOBGCSIBDQKCUuBDDKCCcCMCKCGIXJcNC/BBHGKDECEVFBE MCEEbqBDDGDFDXD
 CEBDGEG0BEICyBQCICKGSGDEBKcICXLCLBdDDBvBDECCDNCKECFCJKFBpBFEDCJDBICCKCEQBG
 DDByBEDCEFBYDCELEDDCKGCGGJHBHBrBBEJDEwCjBIDCKGk9KMxExBEggCgoGuLcQDmBHMFFC
 KBNBFBIsDQRrLCQgCC2BoBMCCQGEQDCQDDDDFDGDECEEFBnEEBFEDCKCDCaDDaDBFCKBtBCf
 DGCGCFEDDDDDCECKDC\n val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 1342)\n val
 start = IntArray(diff.size + 1)\n for (i in diff.indices) {\n start[i + 1] = start[i] + diff[i]\n }\n decodedRangeStart = start\n \n // rangeCategory.length = 2033\n val rangeCategory =
 \"\"PsY44a41W54UYJZYB14W7XC15WZPsYa84b19Zw8b85Lr7C44brlerrYBZBCZCiBiBiBhCiiBhChiBhiCBhh
 ChiCihBhChCChiBhChiCIBCFhjCiBiBihDhiBhCCihBiBBhCCFCEbEbEb7EbGhGk7BixRkiCi4BRbh4BhRhCBR
 BCiiBBCiBChiZBCBCiBcGHhChCiBRBxxEYc40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYIIGFIYGwc
 GmkEmcGFJf18cYxwFGFGRFGFRJFGkkcYkxRm6aFGEgmmEmEGRYRFGxxYFRFRFRGQGIFmIFIGIooGF
 GFGYJ4EFmoIRFlxRlxRFRFxlRxlFlIRxmFIGxxIoxRomFRIRxIFlmGRJFaL86F4mRxmGoRFRFRFRFlIRxGIGR
 xmGxmGmxRxGRFIRRjmmFllGYRmmIRFlIRIRFRFlIRFxxGFIGmmRoxImxRFRllGmxRJ4aRFGxmIoRFlxRlxR
 FRFlIRFxxGllmoGmmRxoIxoIGRmmIRxIFlmGRJ8FLRxmFFRFlIRlIRxxFIRlxRxlFRFRFRooGRlIoRomRxFRIR
 JLc8aRmoIoGFlIRIRFRFRlmgmoIoGRGRRxmGFRllGmxRJRYL8lGooYFlIRIRFRFRFRmlIIXGooRGRIRlxFG
 RJxlFRGIFlIRFlmGIGxIooRomF8xRxxFlIILFGRJLcFxmIoRFRFRFxIRFRxxGxxIooGmmRRIRJxxIoYRFlIG
 RaFEGYJYRxlFRFRFIRFlIGlxFxEGRJRFRFcY84c8mGcJL8G1WIFRFRGIGmmYFGRGRcGc88RYcYRFIGI
 GmmIomGFJYFooGmlFllGmmFIFIFGFmoIGIomFJIm8cBhRRxxBC4ECFRFRFIRFRFRFRFRFRFRFRFRFRFRFR
 FRGYLRFcRBRCxxUF8YFMF1WRFYKFRFRFRGFRGFRGFRFlIRGRFmmIGIooGGY44E46FmxRJRLRY44
 U44GmmQRJRFEFRFGRFGRFRFxmgmoIoogmoIoxRxxIoGIGRxxcx4YJFRFRFRFRJLRcFmmIomRx4YFoGG
 mRomIGIGmxRJRJRyEYRGmmHRGIFmIGmIooGFRJYcGcRmmIFomGmmIomGmlFJfmoGooGGIRYFIFIG
 RYJRfJEYCRBRBYRGYGIGFGFlIGomGFRCECECEGRGHcCiBCBCRBRCBCBCBRBCxBCBCRCDCDCD
 CiiRBj7CbCiiRBj7b7iCiiRxiCBRbCBbxxCiiRBj7bRMQUY9+V9+VYtOQMY9eY43X44Z1WY54XYMQRQrER
 LZ12ELZ12RERaRGHGHGR88B88BihBhiChhC8hcZBc8BB8CBCFi8cihBZBC8Z8CLKhCKr8cRZcZc88ZcZc85
 Z8ZcZc1WcZc1WcZcZcZcRcRLcLcZcZcZcZc1WLcZ1WZ1WZcZ1WZ1WZ1WZcZcZcRcRcBRcixBBCiBBihC
 CEbhCCchCGhCRY44LCiRRxxCFRkYRGFR
 48cRcRcRcRcRs4Y48EIK1Wc1W12U2cKGooUE88KqqEl4c8RFxxGm7bkkFUF4kekFRFRFRFx8cLcFcRcRLcLc
```

```

LcLcLcFcFRFEFRcRFEYFEYFJFRhClmHnnYG4EhCEGFKGYRbEbhCCiBECiBhCk7bhCIBihCiBBCBhCRhiBh
hCCRhiFkkCFIGlIGlIFooGmLcGRL88aRFYRIFIGRYJRGFY14FGJFGYFGIRYFRGIFmoIGIGIYxEJRYFmEFJ
FRFGmoImoIGRFGFmIRJRYFEFCloGIFmlGmlFGFlmGFRlIEYFomGo4YIkEoGRFRFRFRFRFRcBcEck7bRCFo
oG4oGRJRFRFRFRFTSFRFRRCRlGFZFRFRlxFFbRF2VRFRFRF6cRGY41WRG40UX1W44V24Y44X33Y44R
44U1WY50Z5R46YRFRFxxQY44a41W54UYJZYB14W7XC15WZ12YYFEFEFRFRFRFlxRIIRxxa65b86axcZc
RQcR"\n decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 1343)\n
}\n}\n\nprivate fun categoryValueFrom(code: Int, ch: Int): Int {\n return when {\n code < 0x20 -> code\n code < 0x400 -> if ((ch and 1) == 1) code shr 5 else code and 0x1f\n else ->\n when (ch % 3) {\n 2 -> code shr 10\n 1 -> (code shr 5) and 0x1f\n else -> code and 0x1f\n }\n }\n}\n}\n\n/**\n * Returns the Unicode general category of this character as an Int.\n */\ninternal fun Char.getCategoryValue(): Int\n{\n val ch = this.code\n val index = binarySearchRange(Category.decodedRangeStart, ch)\n val start =\n Category.decodedRangeStart[index]\n val code = Category.decodedRangeCategory[index]\n val value =\n categoryValueFrom(code, ch - start)\n return if (value == 17) CharCategory.UNASSIGNED.value else\n value\n}\n\ninternal fun decodeVarLenBase64(base64: String, fromBase64: IntArray, resultLength: Int): IntArray\n{\n val result = IntArray(resultLength)\n var index = 0\n var int = 0\n var shift = 0\n for (char in base64)\n {\n val sixBit = fromBase64[char.code]\n int = int or ((sixBit and 0x1f) shl shift)\n if (sixBit < 0x20)\n {\n result[index++] = int\n int = 0\n shift = 0\n } else {\n shift += 5\n }\n }\n return result\n}\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the\nGenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport\nkotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-
place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if\n (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage\nkotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n37 ranges totally\nprivate object Digit {\n internal val rangeStart = intArrayOf(\n 0x0030, 0x0660, 0x06f0, 0x07c0, 0x0966, 0x09e6, 0x0a66, 0x0ae6,\n 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20, 0x1040, 0x1090, 0x17e0, \n 0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50, 0x1bb0, 0x1c40, 0x1c50, 0xa620, 0xa8d0, 0xa900, 0xa9d0,\n 0xa9f0, 0xaa50, 0xabf0, 0xff10, \n)\n}\n\n/**\n * Returns the index of the largest element in [array] smaller or
equal to the specified [needle],\n * or -1 if [needle] is smaller than the smallest element in [array].\n */\ninternal fun\nbinarySearchRange(array: IntArray, needle: Int): Int {\n var bottom = 0\n var top = array.size - 1\n var middle\n = -1\n var value = 0\n while (bottom <= top) {\n middle = (bottom + top) / 2\n value = array[middle]\n if (needle > value)\n bottom = middle + 1\n else if (needle == value)\n return middle\n else\n top = middle - 1\n }\n return middle - (if (needle < value) 1 else 0)\n}\n\n/**\n * Returns an integer
from 0..9 indicating the digit this character represents,\n * or -1 if this character is not a digit.\n */\ninternal fun\nChar.digitToIntImpl(): Int {\n val ch = this.code\n val index = binarySearchRange(Digit.rangeStart, ch)\n val\n diff = ch - Digit.rangeStart[index]\n return if (diff < 10) diff else -1\n}\n\n/**\n * Returns `true` if this character is
a digit.\n */\ninternal fun Char.isDigitImpl(): Boolean {\n return digitToIntImpl() >= 0\n}\n", "/*\n * Copyright\n2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n222 ranges totally\nprivate object Letter {\n val decodedRangeStart: IntArray\n val decodedRangeLength: IntArray\n val decodedRangeCategory: IntArray\n\n init {\n val toBase64 =

```

```

\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n val fromBase64 =
IntArray(128)\n for (i in toBase64.indices) {\n fromBase64[toBase64[i].code] = i\n }\n \n //
rangeStartDiff.length = 356\n val rangeStartDiff =
\"hCgBpCQGYHZH5BRpBPPPPPRMP5BPPICPP6BkEPPPPcXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D
6E1BIBTiBmBIBP5BhBiBrBvBjBqBnBPRtBiCmCtBIB0BmB5BiB7BmBgEmChBZgCoEoGVpBSfRhBPqKQ2B
wBYoFgB4CJuTiEvBuCuDrF5DgEgFIJ1DgFmBQtBsBRGsB+BPiBID1EIjDPRPPPPPPPPGQSQS/DxENVNU+
B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPrBP8B7F1B/ErBqC6B7B
iBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBIBsD\"\n val diff = decodeVarLenBase64(rangeStartDiff,
fromBase64, 222)\n val start = IntArray(diff.size)\n for (i in diff.indices) {\n if (i == 0) start[i] =
diff[i]\n else start[i] = start[i - 1] + diff[i]\n }\n decodedRangeStart = start\n \n //
rangeLength.length = 328\n val rangeLength =
\"aaMBXHYH5BRpBPPPPPRMP5BPPICPPzBDOOPPcXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkB
QhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DiCgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8Dh
BtCqDpFvD1D3E0lrD2EkBjRBDObSb+BPiBIB1EIjDPPPPPPPPPPGPPMNLsBNPNPKCvBvBPPCkDPBmBPh
DXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPPBPf4FrBjEhBpC3B5BKaWPrBOWck/KsCuLqDHPbPxPsFt
EaaqDL\"\n decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n \n //
rangeCategory.length = 959\n val rangeCategory =
\"GFjgggUHGFFZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1
q1qB1q1q1+Bgii4wDTm74g3KigxqM60q1q1Bq1o1q1BF1qlqrBZ2q5wprBGFZWWZGHFsjiioLowgmOowjkw
CkgoiIk7ligGogiioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkwC4gikQ//v+85BkwvoIsgoyI4ygu0whiw
Eowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHgXgmIoxgqYkwwg4DkxgmIkgoioBsgsso
BgzyI8g9gL8g9kI0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0go
QkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwg
sIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B//q
1qBH/qlqq9Bholqq9B1i00a1q10qD1op1HkwmigEigy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BG
WhggzhwBFFhgk4//Bo2jigE8wgul8wgul8wgugUog1qoB4qjmIwwi2KkgYHHH4lBgiFWkgIwoghssMmz5smrBZ
3q1y50B5sm7gzBtz1smzB5smz50BqzqtzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZ0
2giY0ghiIsgH24B4ghsQ8QF/v1q1OFs008iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGfK7hsQ4gB\"\n
decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n }\n}\n\n/**\n * Returns
`true` if this character is a letter.\n */\ninternal fun Char.isLetterImpl(): Boolean {\n return getLetterType() !=
0\n}\n\n/**\n * Returns `true` if this character is a lower case letter, or it has contributory property
Other_Lowercase.\n */\ninternal fun Char.isLowerCaseImpl(): Boolean {\n return getLetterType() == 1 ||
code.isOtherLowercase()\n}\n\n/**\n * Returns `true` if this character is an upper case letter, or it has contributory
property Other_Uppercase.\n */\ninternal fun Char.isUpperCaseImpl(): Boolean {\n return getLetterType() == 2 ||
code.isOtherUppercase()\n}\n\n/**\n * Returns\n * - `1` if the character is a lower case letter,\n * - `2` if the
character is an upper case letter,\n * - `3` if the character is a letter but not a lower or upper case letter,\n * - `0`
otherwise.\n */\nprivate fun Char.getLetterType(): Int {\n val ch = this.code\n val index =
binarySearchRange(Letter.decodedRangeStart, ch)\n val rangeStart = Letter.decodedRangeStart[index]\n val
rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n val code =
Letter.decodedRangeCategory[index]\n if (ch > rangeEnd) {\n return 0\n }\n val lastTwoBits = code
and 0x3\n if (lastTwoBits == 0) { // gap pattern\n var shift = 2\n var threshold = rangeStart\n for (i
in 0..1) {\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n return 3\n
 }\n shift += 7\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n
 return 0\n }\n shift += 7\n }\n return 3\n }\n if (code <= 0x7) {\n
 return lastTwoBits\n }\n val distance = (ch - rangeStart)\n val shift = if (code <= 0x1F) distance % 2 else
distance\n return (code shr (2 * shift)) and 0x3\n}\n\n\","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the

```

```

GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nprivate object
OtherLowercase {\n internal val otherLowerStart = intArrayOf(\n 0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0,
0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770,
0xa7f8, 0xab5c, \n)\n internal val otherLowerLength = intArrayOf(\n 1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13,
16, 26, 2, 2, 1, 2, 4, \n)\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n val index =
binarySearchRange(OtherLowercase.otherLowerStart, this)\n return index >= 0 && this <
OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n\n"/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n\nNOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\ninternal fun Int.isOtherUppercase(): Boolean
{\n return this in 0x2160..0x216f\n || this in 0x24b6..0x24cf\n}\n\n"/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n\nNOTE: THIS FILE IS
AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.js.*\n\n/**\n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\n */\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun
CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length") }\n}\n\n"/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n\nNOTE: THIS FILE IS
AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\n// 4 ranges totally\n\ninternal fun
Char.titlecaseCharImpl(): Char {\n val code = this.code\n // Letters repeating <Lu, Lt, Ll> sequence and code of
the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n
 return (3 * ((code + 1) / 3)).toChar()\n }\n // Lower case letters whose title case mapping equivalent is equal
to the original letter\n if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n return this\n }\n return
uppercaseChar()\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n\nNOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n */\n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):
UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n"/*\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n */\n */\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):
ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n"/*\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n */\n */\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):
UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n"/*\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n */\n */\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):

```

```

UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")\n
}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n
return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n
override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean =\n
this@asList.contains(element)\n override fun get(index: Int): UInt {\n
AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun\n
indexOf(element: UInt): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt)\n
return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int\n
{\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt) return -1\n return\n
this@asList.lastIndexOf(element)\n }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong>\n
{\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n
 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong):\n
Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n
AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun\n
indexOf(element: ULong): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is\n
ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:\n
ULong): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is ULong) return -1\n
 return this@asList.lastIndexOf(element)\n }\n }\n}\n}\n\n/**\n * Returns a [List] that wraps the original\n
array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList():\n
List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() =\n
this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun\n
contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n
 AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun\n
indexOf(element: UByte): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is\n
UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:\n
UByte): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UByte) return -1\n
 return this@asList.lastIndexOf(element)\n }\n }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort>\n
{\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n
 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort):\n
Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n
AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun\n
indexOf(element: UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is\n
UShort) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:\n
UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UShort) return -1\n
 return this@asList.lastIndexOf(element)\n }\n }\n}\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and\n
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n
can be found in the license/LICENSE.txt file.\n *\n@n\npackage kotlin.text\n\n/\n\n// NOTE: THIS FILE IS AUTO-\n
GENERATED by the GenerateUnicodeData.kt\n// See:\n
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\n// 9 ranges totally\n\n/**\n * Returns `true` if this\n
character is a whitespace.\n *\ninternal fun Char.isWhitespaceImpl(): Boolean {\n val ch = this.code\n return ch\n
in 0x0009..0x000d\n || ch in 0x001c..0x0020\n || ch == 0x00a0\n || ch > 0x1000 && (\n
ch == 0x1680\n || ch in 0x2000..0x200a\n || ch == 0x2028\n || ch == 0x2029\n
|| ch == 0x202f\n || ch == 0x205f\n || ch == 0x3000\n)\n}\n\n"/*\n * Copyright 2010-2020\n
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@n\npackage kotlin\n\n\npublic actual fun

```

```

interface Comparator<T> {
 @JsName("compare")
 public actual fun compare(a: T, b: T): Int
}

```

Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```

package
kotlin.js
import kotlin.annotation.AnnotationTarget.*
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class
nativeGetter
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke
@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = "")
@Target(CLASS)
internal annotation class marker

```

**Gives a declaration (a function, a property or a class) specific name in JavaScript.** This may be useful in the following cases:

- There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.
- You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer. You can put `@JsName(...)` on functions you want to be available from JavaScript.
- For some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which is uncommon in Kotlin.

**Example:**

```

kotlin
class Person(val name: String) {
 fun hello() {
 println("Hello $name!")
 }
 @JsName("helloWithGreeting")
 fun hello(greeting: String) {
 println("$greeting $name!")
 }
}

```

**@property name** the name which compiler uses both for declaration itself and for all references to the declaration. It's required to denote a valid JavaScript identifier.

```

@Retention(AnnotationRetention.BINARY)
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)

```

**Denotes an 'external' declaration that must be imported from native JavaScript library.** The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function. The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can't be 'external') the following rule applies: all the declarations in the file must be 'external'. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

**Example:**

```

kotlin
@JsModule("jquery")
external abstract class JQuery() {
 // some declarations here
}
@JsModule("jquery")
external fun JQuery(element: Element): JQuery

```

**@property import name of a module to import declaration from.** It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system. @see JsNonModule

```

@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public annotation class JsModule(val import: String)

```

**Denotes an 'external' declaration that can be used without module system.** By default, an 'external' declaration is available regardless your target module system. However, by applying `[JsModule]` annotation you can make a declaration unavailable to `plain` module system. Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package. To tell the Kotlin compiler to accept both cases, you can augment `[JsModule]` with the `@JsNonModule` annotation. For example:

```

kotlin
@JsModule("jquery")
@JsNonModule
@JsName("$")
external abstract class JQuery() {
 // some declarations here
}
@JsModule("jquery")
@JsNonModule
@JsName("$")
external fun JQuery(element: Element): JQuery

```

**@see JsModule**

```

@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public annotation class JsNonModule

```

**Adds prefix to 'external' declarations in a source file.** JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects. The compiler turns references to 'external' declarations either to plain unprefix names (in case of `plain` modules) or to plain imports. However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this. You can tell the compiler to generate additional prefix before references to 'external' declarations using the `@JsQualifier(...)` annotation. Note that a file

marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations. Example:

```

@file:JsQualifier("my.jsPackageName") package some.kotlinPackage
external fun foo(x: Int)
external fun bar(): String
@property value the qualifier to add to the declarations in the
generated code. It must be a sequence of valid JavaScript identifiers separated by the `.` character.
Examples of valid qualifiers are: `foo`, `bar.Baz`, `_$0.f`
@see JsModule
@Retention(AnnotationRetention.BINARY) @Target(AnnotationTarget.FILE) public annotation class
JsQualifier(val value: String)
** Exports top-level declaration on JS platform.
** Compiled module
exposes declarations that are marked with this annotation without name mangling.
** This annotation can be
applied to either files or top-level declarations.
** It is currently prohibited to export the following kinds of
declarations:
** `expect` declarations
** inline functions with reified type parameters
** suspend
functions
** secondary constructors without `@JsName`
** extension properties
** enum classes
**
annotation classes
** Signatures of exported declarations must only contain "exportable" types:
**
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`
** `BooleanArray`, `ByteArray`,
`ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`
** `Array<exportable-type>`
** Function types with
exportable parameters and return types
** `external` or `@JsExport` classes and interfaces
** Nullable
counterparts of types above
** Unit return type. Must not be nullable
** This annotation is experimental,
meaning that restrictions mentioned above are subject to change.
@ExperimentalJsExport @Retention(AnnotationRetention.BINARY) @Target(CLASS, PROPERTY,
FUNCTION, FILE) @SinceKotlin("1.3") public actual annotation class JsExport{n, "/}
** Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
** Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
package kotlin.jvm
// these are
used in common generated code in stdlib
// TODO: find how to deprecate these
ones
@Target(AnnotationTarget.FIELD) @Retention(AnnotationRetention.SOURCE) public actual
annotation class Volatile
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER) @Retention(AnnotationRetention.SOURCE) public actual annotation
class Synchronized{n, "/}
** Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.
** Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
package kotlin.collections
/** Provides a skeletal implementation of the
[MutableCollection] interface.
@param E the type of elements contained in the collection. The collection is
invariant in its element type.
public actual abstract class AbstractMutableCollection<E> protected actual
constructor() : AbstractCollection<E>(), MutableCollection<E> {
 actual abstract override fun add(element: E):
 Boolean
 actual override fun remove(element: E): Boolean {
 checkIsMutable()
 val iterator =
 iterator()
 while (iterator.hasNext()) {
 if (iterator.next() == element) {
 iterator.remove()
 return true
 }
 }
 return false
 }
 actual override fun addAll(elements:
 Collection<E>): Boolean {
 checkIsMutable()
 var modified = false
 for (element in elements) {
 if (add(element)) modified = true
 }
 return modified
 }
 actual override fun
 removeAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 return (this as
 MutableIterable<E>).removeAll { it in elements }
 }
 actual override fun retainAll(elements:
 Collection<E>): Boolean {
 checkIsMutable()
 return (this as MutableIterable<E>).removeAll { it !in
 elements }
 }
 actual override fun clear(): Unit {
 checkIsMutable()
 val iterator = this.iterator()
 while (iterator.hasNext()) {
 iterator.next()
 iterator.remove()
 }
 }
}
@Deprecated("Provided so that subclasses inherit this function", level = DeprecationLevel.HIDDEN)
@JsName("toJSON") protected fun toJSON(): Any = this.toArray()
/** This method is called
every time when a mutating method is called on this mutable collection.
** Mutable collections that are built
(frozen) must throw `UnsupportedOperationException`
** internal open fun checkIsMutable(): Unit {
}
}
** Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
** Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
package
** Based on GWT AbstractList
** Copyright 2007 Google Inc.
package

```



```

kotlin.collections\n\n**\n * Provides a skeletal implementation of the [MutableList] interface.\n *\n * @param E
the type of elements contained in the list. The list is invariant in its element type.\n *\n\npublic actual abstract class
AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n
protected var modCount: Int = 0\n\n abstract override fun add(index: Int, element: E): Unit\n abstract override
fun removeAt(index: Int): E\n abstract override fun set(index: Int, element: E): E\n\n /**\n * Adds the
specified element to the end of this list.\n *\n * @return `true` because the list is always modified as the result
of this operation.\n *\n actual override fun add(element: E): Boolean {\n checkIsMutable()\n add(size,
element)\n return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
AbstractList.checkPositionIndex(index, size)\n\n checkIsMutable()\n var _index = index\n var
changed = false\n for (e in elements) {\n add(_index++, e)\n changed = true\n }\n return
changed\n }\n\n actual override fun clear() {\n checkIsMutable()\n removeRange(0, size)\n }\n\n
actual override fun removeAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return
removeAll { it in elements }\n }\n\n actual override fun retainAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n return removeAll { it !in elements }\n }\n\n\n actual override fun iterator():
MutableIterator<E> = IteratorImpl()\n\n actual override fun contains(element: E): Boolean = indexOf(element) >=
0\n\n actual override fun indexOf(element: E): Int {\n for (index in 0..lastIndex) {\n if (get(index) ==
element) {\n return index\n }\n }\n return -1\n }\n\n actual override fun
lastIndexOf(element: E): Int {\n for (index in lastIndex downTo 0) {\n if (get(index) == element) {\n
return index\n }\n }\n return -1\n }\n\n\n actual override fun listIterator():
MutableListIterator<E> = listIterator(0)\n\n actual override fun listIterator(index: Int): MutableListIterator<E> =
ListIteratorImpl(index)\n\n\n actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> =
SubList(this, fromIndex, toIndex)\n\n /**\n * Removes the range of elements from this list starting from
[fromIndex] and ending with but not including [toIndex].\n *\n\n protected open fun removeRange(fromIndex:
Int, toIndex: Int) {\n val iterator = listIterator(fromIndex)\n repeat(toIndex - fromIndex) {\n
iterator.next()\n iterator.remove()\n }\n }\n\n /**\n * Compares this list with another list instance
with the ordered structural equality.\n *\n * @return true, if [other] instance is a [List] of the same size, which
contains the same elements in the same order.\n *\n\n override fun equals(other: Any?): Boolean {\n if (other
=== this) return true\n if (other !is List<*>) return false\n return AbstractList.orderedEquals(this, other)\n
}\n\n /**\n * Returns the hash code value for this list.\n *\n\n override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n\n\n private open inner class IteratorImpl : MutableIterator<E> {\n /**
the index of the item that will be returned on the next call to [next]`() ` *\n protected var index = 0\n /** the
index of the item that was returned on the previous call to [next]`() ` *\n * or [ListIterator.previous]`() ` (for
`ListIterator`),\n * -1 if no such item exists\n *\n protected var last = -1\n\n override fun
hasNext(): Boolean = index < size\n\n override fun next(): E {\n if (!hasNext()) throw
NoSuchElementException()\n last = index++\n return get(last)\n }\n\n override fun remove()
{\n check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n\n
removeAt(last)\n index = last\n last = -1\n }\n }\n\n /**\n * Implementation of
`MutableListIterator` for abstract lists.\n *\n\n private inner class ListIteratorImpl(index: Int) : IteratorImpl(),
MutableListIterator<E> {\n\n init {\n AbstractList.checkPositionIndex(index,
this@AbstractMutableList.size)\n this.index = index\n }\n\n override fun hasPrevious(): Boolean =
index > 0\n\n override fun nextIndex(): Int = index\n\n override fun previous(): E {\n if
(!hasPrevious()) throw NoSuchElementException()\n last = --index\n return get(last)\n }\n\n
override fun previousIndex(): Int = index - 1\n\n override fun add(element: E) {\n add(index, element)\n
index++\n last = -1\n }\n\n override fun set(element: E) {\n check(last != -1) { \"Call
next() or previous() before updating element value with the iterator.\" }\n set(last, element)\n }\n }\n\n
private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) :
AbstractMutableList<E>(), RandomAccess {\n private var _size: Int = 0\n\n init {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n this._size = toIndex - fromIndex\n }\n\n

```

```

 override fun add(index: Int, element: E) {
 AbstractList.checkPositionIndex(index, _size)
 list.add(fromIndex + index, element)
 _size++
 }
 override fun get(index: Int): E {
 AbstractList.checkElementIndex(index, _size)
 return list[fromIndex + index]
 }
 override fun removeAt(index: Int): E {
 AbstractList.checkElementIndex(index, _size)
 val result = list.removeAt(fromIndex + index)
 _size--
 return result
 }
 override fun set(index: Int, element: E): E {
 AbstractList.checkElementIndex(index, _size)
 return list.set(fromIndex + index, element)
 }
 override val size: Int get() = _size
 internal override fun checkIsMutable(): Unit = list.checkIsMutable()
}

/*
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
/*
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 */
package kotlin.collections

/**
 * Provides a skeletal implementation of the [MutableMap] interface.
 *
 * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.
 *
 * @param K the type of map keys. The map is invariant in its key type.
 * @param V the type of map values. The map is invariant in its value type.
 */
public abstract class AbstractMutableMap<K, V> : AbstractMap<K, V>, MutableMap<K, V> {
 /**
 * A mutable [Map.Entry] shared by several [Map] implementations.
 */
 internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {
 constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)
 private var _value = value
 override val value: V get() = _value
 override fun setValue(newValue: V): V {
 // Should check if the map containing this entry is mutable.
 // However, to not increase entry memory footprint it might be worthwhile not to check it here and
 // force subclasses that implement `build()` (freezing) operation to implement their own `MutableEntry`.
 this@AbstractMutableMap.checkIsMutable()
 val oldValue = this._value
 this._value = newValue
 return oldValue
 }
 override fun hashCode(): Int = entryHashCode(this)
 override fun toString(): String = entryToString(this)
 override fun equals(other: Any?): Boolean = entryEquals(this, other)
 }
 // intermediate abstract class to workaround KT-43321
 internal abstract class AbstractEntrySet<E> : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {
 final override fun contains(element: E): Boolean = containsEntry(element)
 abstract fun containsEntry(element: Map.Entry<K, V>): Boolean
 final override fun remove(element: E): Boolean = removeEntry(element)
 abstract fun removeEntry(element: Map.Entry<K, V>): Boolean
 }
 actual override fun clear() {
 entries.clear()
 }
 private var _keys: MutableSet<K>? = null
 actual override val keys: MutableSet<K> get() {
 if (_keys == null) {
 _keys = object : AbstractMutableSet<K>() {
 override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on keys")
 override fun clear() {
 this@AbstractMutableMap.clear()
 }
 override operator fun contains(element: K): Boolean = containsKey(element)
 override operator fun iterator(): MutableIterator<K> {
 val entryIterator = entries.iterator()
 return object : MutableIterator<K> {
 override fun hasNext(): Boolean = entryIterator.hasNext()
 override fun next(): K = entryIterator.next().key
 override fun remove() = entryIterator.remove()
 }
 }
 override fun remove(element: K): Boolean {
 checkIsMutable()
 if (containsKey(element)) {
 this@AbstractMutableMap.remove(element)
 return true
 }
 return false
 }
 override val size: Int get() = this@AbstractMutableMap.size
 }
 }
 return _keys!!
 }
 actual abstract override fun put(key: K, value: V): V?
 actual override fun putAll(from: Map<out K, V>) {
 checkIsMutable()
 for ((key, value) in from) {
 put(key, value)
 }
 }
 private var _values: MutableCollection<V>? = null
 actual override val values: MutableCollection<V> get() {
 if (_values == null) {
 _values = object : AbstractMutableCollection<V>() {
 override fun add(element: V): Boolean = throw UnsupportedOperationException("Add is not supported on values")
 override fun clear() =

```

```

this@AbstractMutableMap.clear()\n\n override operator fun contains(element: V): Boolean =
containsValue(element)\n\n override operator fun iterator(): MutableIterator<V> {\n val
entryIterator = entries.iterator()\n return object : MutableIterator<V> {\n override fun
hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n override fun remove() = entryIterator.remove()\n }\n }\n\noverride val size: Int get() = this@AbstractMutableMap.size\n\n override fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n }\n }\n return _values!!\n }\n\n actual
override fun remove(key: K): V? {\n checkIsMutable()\n val iter = entries.iterator()\n while
(iter.hasNext()) {\n val entry = iter.next()\n val k = entry.key\n if (key == k) {\n val
value = entry.value\n iter.remove()\n return value\n }\n }\n return null\n }\n\n /**\n * This method is called every time when a mutating method is called on this mutable map.\n * Mutable
maps that are built (frozen) must throw `UnsupportedOperationException`.\n */\n internal open fun
checkIsMutable(): Unit {\n }\n }"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n package kotlin.collections\n /**\n * Provides a skeletal implementation of the
[MutableSet] interface.\n */\n @param E the type of elements contained in the set. The set is invariant in its
element type.\n */\n public actual abstract class AbstractMutableSet<E> protected actual constructor() :
AbstractMutableCollection<E>(), MutableSet<E> {\n /**\n * Compares this set with another set instance with
the unordered structural equality.\n */\n @return `true`, if [other] instance is a [Set] of the same size, all
elements of which are contained in this set.\n */\n override fun equals(other: Any?): Boolean {\n if (other
=== this) return true\n if (other !is Set<*>) return false\n return AbstractSet.setEquals(this, other)\n }\n /**\n * Returns the hash code value for this set.\n */\n override fun hashCode(): Int =
AbstractSet.unorderedHashCode(this)\n }"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n package kotlin.collections\n /**\n * Provides a [MutableList] implementation,
which uses a resizable array as its backing storage.\n */\n * This implementation doesn't provide a way to manage
capacity, as backing JS array is resizeable itself.\n * There is no speed advantage to pre-allocating array sizes in
JavaScript, so this implementation does not include any of the\n * capacity and "growth increment" concepts.\n */\n public actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :
AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n private var isReadOnly: Boolean = false\n /**\n * Creates an empty [ArrayList].\n */\n public actual constructor() : this(emptyArray()) {\n }\n /**\n * Creates an empty [ArrayList].\n */\n @param initialCapacity initial capacity (ignored)\n */\n public actual
constructor(initialCapacity: Int) : this(emptyArray()) {\n }\n /**\n * Creates an [ArrayList] filled from the
[elements] collection.\n */\n public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {\n }\n @PublishedApi\n internal fun build(): List<E> {\n checkIsMutable()\n isReadOnly = true\n return this\n }\n /** Does nothing in this ArrayList
implementation. */\n public actual fun trimToSize() {\n }\n /** Does nothing in this ArrayList implementation.
*/\n public actual fun ensureCapacity(minCapacity: Int) {\n }\n actual override val size: Int get() = array.size\n @Suppress("UNCHECKED_CAST")\n actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n actual override fun set(index: Int, element: E): E {\n checkIsMutable()\n rangeCheck(index)\n @Suppress("UNCHECKED_CAST")\n return array[index].apply { array[index] = element } as E\n }\n actual override fun add(element: E): Boolean {\n checkIsMutable()\n array.asDynamic().push(element)\n modCount++\n return true\n }\n actual override fun add(index: Int, element: E): Unit {\n checkIsMutable()\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n modCount++\n }\n actual override fun addAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n if
(elements.isEmpty()) return false\n array += elements.toArray<Any?>()\n modCount++\n return true\n }\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n checkIsMutable()\n insertionRangeCheck(index)\n if (index == size) return addAll(elements)\n if

```

```

(elements.isEmpty()) return false\n when (index) {\n size -> return addAll(elements)\n 0 -> array
= elements.toArray<Any?>() + array\n else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toArray<Any?>(), array.copyOfRange(index, size))\n }\n\n
modCount++\n return true\n }\n\n actual override fun removeAt(index: Int): E {\n checkIsMutable()\n
rangeCheck(index)\n modCount++\n return if (index == lastIndex)\n array.asDynamic().pop()\n
else\n array.asDynamic().splice(index, 1)[0]\n }\n\n actual override fun remove(element: E): Boolean {\n
checkIsMutable()\n for (index in array.indices) {\n if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n modCount++\n return true\n }\n }\n return
false\n }\n\n override fun removeRange(fromIndex: Int, toIndex: Int) {\n checkIsMutable()\n
modCount++\n array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n }\n\n actual override fun
clear() {\n checkIsMutable()\n array = emptyArray()\n modCount++\n }\n\n\n actual override fun
indexOf(element: E): Int = array.indexOf(element)\n\n actual override fun lastIndexOf(element: E): Int =
array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n\n
@Suppress("UNCHECKED_CAST")\n override fun <T> toArray(array: Array<T>): Array<T> {\n if
(array.size < size) {\n return toArray() as Array<T>\n }\n\n (this.array as
Array<T>).copyInto(array)\n\n if (array.size > size) {\n array[size] = null as T // null-terminate\n
}\n\n return array\n }\n\n override fun toArray(): Array<Any?> {\n return js("[]").slice.call(array)\n
}\n\n\n internal override fun checkIsMutable() {\n if (isReadOnly) throw UnsupportedOperationException()\n
}\n\n private fun rangeCheck(index: Int) = index.apply {\n AbstractList.checkElementIndex(index, size)\n
}\n\n private fun insertionRangeCheck(index: Int) = index.apply {\n AbstractList.checkPositionIndex(index,
size)\n }\n}"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int)
{\n if (getStableSortingIsSupported()) {\n array.asDynamic().sort(comparison)\n } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n if (getStableSortingIsSupported())
{\n val comparison = { a: T, b: T -> comparator.compare(a, b) }\n array.asDynamic().sort(comparison)\n
 } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n if
(fromIndex < toIndex - 1) {\n mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n
}\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n if
(getStableSortingIsSupported()) {\n val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n
_stableSortingIsSupported = false\n\n val array = js("[]").unsafeCast<Array<Int>>()\n // known
implementations may use stable sort for arrays of up to 512 elements\n // so we create slightly more elements to
test stability\n for (index in 0 until 600) array.asDynamic().push(index)\n val comparison = { a: Int, b: Int -> (a
and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n val a =
array[index - 1]\n val b = array[index]\n if ((a and 3) == (b and 3) && a >= b) return false\n }\n
_stableSortingIsSupported = true\n return true\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int,
endInclusive: Int, comparator: Comparator<in T>) {\n val buffer =
arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n val result = mergeSort(array, buffer, start,
endInclusive, comparator)\n if (result !== array) {\n for (i in start..endInclusive) array[i] = result[i]\n
}\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>,
start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n if (start == end) {\n return array\n }\n
val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right =
mergeSort(array, buffer, median + 1, end, comparator)\n val target = if (left === buffer) array else buffer\n\n //

```

```

Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n when {\n leftIndex <= median && rightIndex <= end -> {\n val leftValue = left[leftIndex]\n val rightValue = right[rightIndex]\n if (comparator.compare(leftValue, rightValue) <= 0) {\n target[i] = leftValue\n leftIndex++\n } else {\n target[i] = rightValue\n rightIndex++\n }\n }\n leftIndex <= median -> {\n target[i] = left[leftIndex]\n leftIndex++\n }\n else /* rightIndex <= end */ -> {\n target[i] = right[rightIndex]\n rightIndex++\n }\n }\n }\n Unit // TODO: Fix KT-31506\n}\n}\n}\n}\nreturn target\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage\nkotlin.collections\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("contentDeepHashCodeImpl")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n if (this == null) return 0\n var result = 1\n for (element in this) {\n val elementHash = when {\n element == null -> 0\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n element is UByteArray -> element.contentHashCode()\n element is UShortArray -> element.contentHashCode()\n element is UIntArray -> element.contentHashCode()\n element is ULongArray -> element.contentHashCode()\n else -> element.hashCode()\n }\n result = 31 * result + elementHash\n }\n return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface\nEqualityComparator {\n /**\n * Subclasses must override to return a value indicating whether or not two keys or values are equal.\n */\n abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n /**\n * Subclasses must override to return the hash code of a given key.\n */\n abstract fun getHashCode(value: Any?): Int\n}\n\nobject HashCodes : EqualityComparator {\n override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n}\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport\nkotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\n */\n// Classes that extend HashMap and implement `build()` (freezing) operation have to make sure mutating methods check `checkIsMutable`.\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n override fun clear() {\n this@HashMap.clear()\n }\n override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@HashMap.containsEntry(element)\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n if (contains(element)) {\n this@HashMap.remove(element.key)\n }\n return true\n }\n override val size: Int get() = this@HashMap.size\n }\n\n /**\n * Internal implementation of the map: either string-based or hashcode-based.\n */\n private val internalMap: InternalMap<K, V>\n private val equality: EqualityComparator\n\n internal constructor(internalMap: InternalMap<K, V>) : super() {\n this.internalMap = internalMap\n this.equality = internalMap.equality\n }\n\n /**\n * Constructs an empty [HashMap] instance.\n */\n actual constructor() : this(InternalHashMap(EqualityComparator.HashCodes))\n\n /**\n * Constructs an empty [HashMap] instance.\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n // This implementation of HashMap has no need of load factors or capacities.\n require(initialCapacity >= 0) {\n
```

```

\Negative initial capacity: $initialCapacity\ } require(loadFactor >= 0) { \Non-positive load factor:
$loadFactor\ } } actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n *
Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n *\n actual
constructor(original: Map<out K, V>) : this() {\n this.putAll(original)\n }\n\n actual override fun clear() {\n
internalMap.clear()\n// structureChanged(this)\n }\n\n actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n get() {\n if
(_entries == null) {\n _entries = createEntrySet()\n }\n\n return _entries!!\n }\n\n internal
open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual override
operator fun get(key: K): V? = internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? =
internalMap.put(key, value)\n\n actual override fun remove(key: K): V? = internalMap.remove(key)\n\n actual
override val size: Int get() = internalMap.size\n\n}\n\n/**\n * Constructs the specialized implementation of
[HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*\n\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n return
HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}\n\n"/\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n/*\n * Based on GWT
HashSet\n * Copyright 2008 Google Inc.\n *\n\npackage kotlin.collections\n\n/**\n * The implementation of the
[MutableSet] interface, backed by a [HashMap] instance.\n *\n\n// Classes that extend HashSet and implement
`build()` (freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\n\npublic actual open
class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n internal val map: HashMap<E, Any>\n\n
/**\n * Constructs a new empty [HashSet].\n *\n actual constructor() {\n map = HashMap<E, Any>()\n
}\n\n /**\n * Constructs a new [HashSet] filled with the elements of the specified collection.\n *\n actual
constructor(elements: Collection<E>) {\n map = HashMap<E, Any>(elements.size)\n\n addAll(elements)\n
}\n\n /**\n * Constructs a new empty [HashSet].\n *\n * @param initialCapacity the initial capacity
(ignored)\n * @param loadFactor the load factor (ignored)\n * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n *\n actual constructor(initialCapacity: Int, loadFactor: Float)
{\n map = HashMap<E, Any>(initialCapacity, loadFactor)\n }\n\n actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n /**\n * Protected constructor to specify the underlying map. This is used by\n *
LinkedHashSet.\n\n * @param map underlying map to use.\n *\n internal constructor(map: HashMap<E,
Any>) {\n this.map = map\n }\n\n actual override fun add(element: E): Boolean {\n val old =
map.put(element, this)\n\n return old == null\n }\n\n actual override fun clear() {\n map.clear()\n
}\n\n// public override fun clone(): Any {\n// return HashSet<E>(this)\n// }\n\n actual override operator fun
contains(element: E): Boolean = map.containsKey(element)\n\n actual override fun isEmpty(): Boolean =
map.isEmpty()\n\n actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n actual override
fun remove(element: E): Boolean = map.remove(element) != null\n\n actual override val size: Int get() =
map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n *\n\npublic fun
stringSetOf(vararg elements: String): HashSet<String> {\n return HashSet(stringMapOf<Any>()).apply {
addAll(elements) }\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n/*\n * Based on GWT InternalHashCodeMap\n * Copyright 2008 Google Inc.\n
*\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject to
provide [java.util.Map]-like semantics for any\n * key type.\n *\n *\n * Implementation notes:\n *\n *\n * A key's
hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same
hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n

```

```

*\ninternal class InternalHashMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>
{\n\n private var backingMap: dynamic = createJsMap()\n override var size: Int = 0\n private set\n\n override fun put(key: K, value: V): V? {\n val hashCode = equality.getHashCode(key)\n val chainOrEntry
= getChainOrEntryOrNull(hashCode)\n if (chainOrEntry == null) {\n // This is a new chain, put it to the
map.\n backingMap[hashCode] = SimpleEntry(key, value)\n } else {\n if (chainOrEntry !is
Array<*>) {\n // It is an entry\n val entry: SimpleEntry<K, V> = chainOrEntry\n if
(equality.equals(entry.key, key)) {\n return entry.setValue(value)\n } else {\n
backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n size++\n return null\n
}\n } else {\n // Chain already exists, perhaps key also exists.\n val chain:
Array<MutableEntry<K, V>> = chainOrEntry\n val entry = chain.findEntryInChain(key)\n if
(entry != null) {\n return entry.setValue(value)\n }\n }\n chain.asDynamic().push(SimpleEntry(key, value))\n }\n }\n size++\n// structureChanged(host)\n
return null\n }\n\n override fun remove(key: K): V? {\n val hashCode = equality.getHashCode(key)\n
val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n
jsDeleteProperty(backingMap, hashCode)\n size--\n return entry.value\n } else {\n
return null\n }\n } else {\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n for
(index in chain.indices) {\n val entry = chain[index]\n if (equality.equals(key, entry.key)) {\n
if (chain.size == 1) {\n chain.asDynamic().length = 0\n // remove the whole
array\n jsDeleteProperty(backingMap, hashCode)\n } else {\n // splice out
the entry we're removing\n chain.asDynamic().splice(index, 1)\n }\n size--\n//
structureChanged(host)\n return entry.value\n }\n }\n }\n return null\n
}\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n }\n\n override fun
contains(key: K): Boolean = getEntry(key) != null\n\n override fun get(key: K): V? = getEntry(key)?.value\n
private fun getEntry(key: K): MutableEntry<K, V>? {\n val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return
entry\n } else {\n return null\n }\n } else {\n val chain: Array<MutableEntry<K,
V>> = chainOrEntry\n return chain.findEntryInChain(key)\n }\n }\n\n private fun
Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n firstOrNull { entry ->
equality.equals(entry.key, key) }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n
return object : MutableIterator<MutableEntry<K, V>> {\n var state = -1 // -1 not ready, 0 - ready, 1 -
done\n\n val keys: Array<String> = js("Object").keys(backingMap)\n var keyIndex = -1\n\n
var chainOrEntry: dynamic = null\n var isChain = false\n var itemIndex = -1\n var lastEntry:
MutableEntry<K, V>? = null\n\n private fun computeNext(): Int {\n if (chainOrEntry != null &&
isChain) {\n val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n
if (++itemIndex < chainSize)\n return 0\n }\n\n if (++keyIndex < keys.size)
{\n chainOrEntry = backingMap[keys[keyIndex]]\n isChain = chainOrEntry is Array<*>\n
itemIndex = 0\n return 0\n } else {\n chainOrEntry = null\n
return 1\n }\n }\n\n override fun hasNext(): Boolean {\n if (state == -1)\n state = computeNext()\n return state == 0\n }\n\n override fun next(): MutableEntry<K, V>
{\n if (!hasNext()) throw NoSuchElementException()\n val lastEntry = if (isChain) {\n
chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n } else {\n
chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n }\n this.lastEntry = lastEntry\n
state = -1\n return lastEntry\n }\n\n override fun remove() {\n
checkNotNull(lastEntry)\n this@InternalHashMap.remove(lastEntry!!.key)\n lastEntry =
null\n // the chain being iterated just got modified by InternalHashMap.remove\n itemIndex--
}\n }\n }\n }\n\n private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n val

```

```

chainOrEntry = backingMap[hashCode]\n return if (chainOrEntry === undefined) null else chainOrEntry\n
}\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and
[InternalHashMap].\n * \ninternal interface InternalMap<K, V> :
MutableIterable<MutableMap.MutableEntry<K, V>> {\n val equality: EqualityComparator\n val size: Int\n
operator fun contains(key: K): Boolean\n operator fun get(key: K): V?\n fun put(key: K, value: V): V?\n fun
remove(key: K): V?\n fun clear(): Unit\n fun createJsMap(): dynamic {\n val result =
js("Object.create(null)")\n // force to switch object representation to dictionary mode\n result["foo"] =
1\n jsDeleteProperty(result, "foo")\n return result\n }\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n * \n\n * Based on GWT InternalStringMap\n * Copyright
2008 Google Inc.\n * \npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n
* A simple wrapper around JavaScript Map for key type is string.\n * \n * Though this map is instantiated only with
K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to
generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n * \ninternal
class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n private var
backingMap: dynamic = createJsMap()\n override var size: Int = 0\n private set\n\n /**\n * A mod
count to track 'value' replacements in map to ensure that the 'value' that we have in the\n * iterator entry is
guaranteed to be still correct.\n * This is to optimize for the common scenario where the values are not modified
during\n * iterations where the entries are never stale.\n * \nprivate var valueMod: Int = 0\n override
operator fun contains(key: K): Boolean {\n if (key !is String) return false\n return backingMap[key] !==
undefined\n }\n override operator fun get(key: K): V? {\n if (key !is String) return null\n val value =
backingMap[key]\n return if (value !== undefined) value.unsafeCast<V>() else null\n }\n\n override fun
put(key: K, value: V): V? {\n require(key is String)\n val oldValue = backingMap[key]\n backingMap[key] = value\n if (oldValue === undefined) {\n size++\n\n structureChanged(host)\n return null\n } else {\n valueMod++\n return
oldValue.unsafeCast<V>()\n }\n }\n\n override fun remove(key: K): V? {\n if (key !is String) return
null\n val value = backingMap[key]\n if (value !== undefined) {\n jsDeleteProperty(backingMap,
key)\n size--\n\n structureChanged(host)\n return value.unsafeCast<V>()\n } else {\n valueMod++\n return null\n }\n }\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n return object :
MutableIterator<MutableEntry<K, V>> {\n private val keys: Array<String> =
js("Object").keys(backingMap)\n private val iterator = keys.iterator()\n private var lastKey: String? =
null\n\n override fun hasNext(): Boolean = iterator.hasNext()\n\n override fun next():
MutableEntry<K, V> {\n val key = iterator.next()\n lastKey = key\n @Suppress("UNCHECKED_CAST")\n return newMapEntry(key as K)\n }\n\n override
fun remove() {\n @Suppress("UNCHECKED_CAST")\n this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n }\n }\n }\n\n private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n override val key: K get() =
key\n override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n override fun
hashCode(): Int = AbstractMap.entryHashCode(this)\n override fun toString(): String =
AbstractMap.entryToString(this)\n override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n }\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n * \n\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google Inc.\n * \npackage
kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based

```



implementation of the [MutableMap] interface, which additionally preserves the insertion order of entries during the iteration. The insertion order is preserved by maintaining a doubly-linked list of all of its entries.

public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {
 /\*\* The entry we use includes next/prev pointers for a doubly-linked circular list with a head node. This reduces the special cases we have to deal with in the list operations. Note that we duplicate the key from the underlying hash map so we can find the eldest entry. The alternative would have been to modify HashMap so more of the code was directly usable here, but this would have added some overhead to HashMap, or to reimplement most of the HashMap code here with small modifications. Paying a small storage cost only if you use LinkedHashMap and minimizing code size seemed like a better tradeoff.
 private inner class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {
 internal var next: ChainEntry<K, V>? = null
 internal var prev: ChainEntry<K, V>? = null
 override fun setValue(newValue: V): V {
 this@LinkedHashMap.checkIsMutable()
 return super.setValue(newValue)
 }
 private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {
 private inner class EntryIterator : MutableIterator<MutableEntry<K, V>>() {
 // The last entry that was returned from this iterator.
 private var last: ChainEntry<K, V>? = null
 // The next entry to return from this iterator.
 private var next: ChainEntry<K, V>? = null
 init {
 next = head
 }
 recordLastKnownStructure(map, this)
 override fun hasNext(): Boolean {
 return next != null
 }
 override fun next(): MutableEntry<K, V> {
 checkStructuralChange(map, this)
 if (!hasNext()) throw NoSuchElementException()
 val current = next!!
 last = current
 next = current.next.takeIf { it != head }
 return current
 }
 override fun remove() {
 check(last != null)
 this@EntrySet.checkIsMutable()
 checkStructuralChange(map, this)
 last!!.remove()
 map.remove(last!!.key)
 recordLastKnownStructure(map, this)
 last = null
 }
 }
 override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")
 override fun clear() {
 this@LinkedHashMap.clear()
 }
 override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@LinkedHashMap.containsEntry(element)
 override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()
 override fun removeEntry(element: Map.Entry<K, V>): Boolean {
 checkIsMutable()
 if (contains(element)) {
 this@LinkedHashMap.remove(element.key)
 return true
 }
 return false
 }
 override val size: Int get() = this@LinkedHashMap.size
 override fun checkIsMutable(): Unit = this@LinkedHashMap.checkIsMutable()
 }
 /\*\* The head of the insert order chain, which is a doubly-linked circular list.
 \* The most recently inserted node is at the end of the chain, ie. chain.prev.
 \*/
 private var head: ChainEntry<K, V>? = null
 /\*\* Add this node to the end of the chain.
 \*/
 private fun ChainEntry<K, V>.addToEnd() {
 // This entry is not in the list.
 check(next == null && prev == null)
 val \_head = head
 if (\_head == null) {
 head = this
 next = this
 prev = this
 } else {
 // Chain is valid.
 val \_tail = checkNotNull(\_head.prev)
 // Update me.
 prev = \_tail
 next = \_head
 // Update my new siblings: current head and old tail.
 \_head.prev = this
 \_tail.next = this
 }
 }
 /\*\* Remove this node from the chain it is a part of.
 \*/
 private fun ChainEntry<K, V>.remove() {
 if (this.next === this) {
 // if this is single element, remove head
 head = null
 } else {
 if (head === this) {
 // if this is first element, move head to next
 head = next
 }
 next!!.prev = prev
 prev!!.next = next
 }
 next = null
 prev = null
 }
 /\*\* The hashmap that keeps track of our entries and the chain. Note that we duplicate the key here to eliminate changes to HashMap and minimize the code here, at the expense of additional space.
 \*/
 private val map: HashMap<K, ChainEntry<K, V>>
 private var isReadOnly: Boolean = false
 /\*\* Constructs an empty [LinkedHashMap] instance.
 \*/
 actual constructor() : super() {
 map = HashMap<K, ChainEntry<K, V>>()
 }
 internal constructor(backingMap: HashMap<K, Any>) : super() {
 @SuppressWarnings("UNCHECKED\_CAST") // expected

```

to work due to erasure\n map = backingMap as HashMap<K, ChainEntry<K, V>>\n }\n\n /**\n *
Constructs an empty [LinkedHashMap] instance.\n *\n * @param initialCapacity the initial capacity
(ignored)\n * @param loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) :
super(initialCapacity, loadFactor) {\n map = HashMap<K, ChainEntry<K, V>>()\n }\n\n actual
constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Constructs an instance of
[LinkedHashMap] filled with the contents of the specified [original] map.\n */\n actual constructor(original:
Map<out K, V>) {\n map = HashMap<K, ChainEntry<K, V>>()\n this.putAll(original)\n }\n\n @PublishedApi\n internal fun build(): Map<K, V> {\n checkIsMutable()\n readOnly = true\n return this\n }\n\n actual override fun clear() {\n checkIsMutable()\n map.clear()\n head = null\n }\n\n // override fun clone(): Any {\n // return LinkedHashMap(this)\n // }\n\n actual override fun
containsKey(key: K): Boolean = map.containsKey(key)\n\n actual override fun containsValue(value: V): Boolean
{\n var node: ChainEntry<K, V> = head ?: return false\n do {\n if (node.value == value) {\n return true\n }\n node = node.next!!\n } while (node != head)\n return false\n }\n\n internal override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual
override operator fun get(key: K): V? = map.get(key)?.value\n\n actual override fun put(key: K, value: V): V? {\n checkIsMutable()\n val old = map.get(key)\n if (old == null) {\n val newEntry =
ChainEntry(key, value)\n map.put(key, newEntry)\n newEntry.addToEnd()\n return null\n } else {\n return old.setValue(value)\n }\n }\n\n actual override fun remove(key: K): V? {\n checkIsMutable()\n val entry = map.remove(key)\n if (entry != null) {\n entry.remove()\n return entry.value\n }\n return null\n }\n\n actual override val size: Int get() = map.size\n\n internal
override fun checkIsMutable() {\n if (readOnly) throw UnsupportedOperationException()\n }\n}\n\n/**\n *
Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as
properties of\n * JS object without hashing them.\n */\npublic fun <V> linkedStringMapOf(vararg pairs:
Pair<String, V>): LinkedHashMap<String, V> {\n return LinkedHashMap<String,
V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}\n\n"/\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google
Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a
[LinkedHashMap] instance.\n */\n * This implementation preserves the insertion order of elements during the
iteration.\n */\n\npublic actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E> {\n\n internal
constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n /**\n * Constructs a new empty
[LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n\n /**\n * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements:
Collection<E>) : super(LinkedHashMap<E, Any>()) {\n addAll(elements)\n }\n\n /**\n * Constructs a
new empty [LinkedHashSet].\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param
loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) :
super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n @PublishedApi\n internal fun build(): Set<E> {\n (map as
LinkedHashMap<E, Any>).build()\n return this\n }\n\n internal override fun checkIsMutable(): Unit =
map.checkIsMutable()\n\n // public override fun clone(): Any {\n // return LinkedHashSet(this)\n // }\n\n}\n\n"/\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\n\npublic fun
linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n return
LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n\n"/\n\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport

```

```

kotlin.contracts.*\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@Deprecated(\"Synchronization on any
object is not supported in Kotlin/JS\",
ReplaceWith(\"run(block)\"))\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic
inline fun <R> synchronized(lock: Any, block: () -> R): R {\n contract {\n callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n\",/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n
open fun println() {\n print(\"\\n\")\n }\n\n open fun println(message: Any?) {\n print(message)\n
println()\n }\n\n abstract fun print(message: Any?)\n\n open fun flush() {\n}\n\n/** JsName used to make the
declaration available outside of module to test it */\n\n@JsName(\"NodeJsOutput\")\n\ninternal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {\n override fun print(message: Any?) {\n // TODO: Using local
variable because of bug in block decomposition lowering in IR backend\n val messageString =
String(message)\n outputStream.write(messageString)\n }\n}\n\n/** JsName used to make the declaration
available outside of module to test it */\n\n@JsName(\"OutputToConsoleLog\")\n\ninternal class OutputToConsoleLog
: BaseOutput() {\n override fun print(message: Any?) {\n console.log(message)\n }\n\n override fun
println(message: Any?) {\n console.log(message)\n }\n\n override fun println() {\n console.log(\"\")\n
}\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*/\n\n@JsName(\"BufferedOutput\")\n\ninternal open class BufferedOutput : BaseOutput() {\n var buffer = \"\"\n\n
override fun print(message: Any?) {\n buffer += String(message)\n }\n\n override fun flush() {\n buffer
= \"\"\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it
*/\n\n@JsName(\"BufferedOutputToConsoleLog\")\n\ninternal class BufferedOutputToConsoleLog : BufferedOutput()\n
{\n override fun print(message: Any?) {\n var s = String(message)\n val i = s.nativeLastIndexOf(\"\n\",
0)\n if (i >= 0) {\n buffer += s.substring(0, i)\n flush()\n s = s.substring(i + 1)\n }\n
buffer += s\n }\n\n override fun flush() {\n console.log(buffer)\n buffer = \"\"\n }\n}\n\n/** JsName
used to make the declaration available outside of module to test it and use at try.kotl.in
*/\n\n@JsName(\"output\")\n\ninternal var output = run {\n val isNode: Boolean = js(\"typeof process !== 'undefined'
&& process.versions && !process.versions.node\")\n if (isNode) NodeJsOutput(js(\"process.stdout\")) else
BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\n\nprivate inline fun String(value: Any?): String =
js(\"String\")(value)\n\n/** Prints the line separator to the standard output stream. */\n\npublic actual fun println() {\n
output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\n\npublic
actual fun println(message: Any?) {\n output.println(message)\n}\n\n/** Prints the given [message] to the standard
output stream. */\n\npublic actual fun print(message: Any?) {\n
output.print(message)\n}\n\n@SinceKotlin(\"1.6\")\n\npublic actual fun readln(): String = throw
UnsupportedOperationException(\"readln is not supported in Kotlin/JS\")\n\n@SinceKotlin(\"1.6\")\n\npublic actual
fun readlnOrNull(): String? = throw UnsupportedOperationException(\"readlnOrNull is not supported in
Kotlin/JS\"),/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n\n@SinceKotlin(\"1.3\")\n\ninternal
actual class SafeContinuation<in T>\n\ninternal actual constructor(\n private val delegate: Continuation<T>,\n
initialResult: Any?)\n : Continuation<T> {\n @PublishedApi\n internal actual constructor(delegate:
Continuation<T>) : this(delegate, UNDECIDED)\n\n public actual override val context: CoroutineContext\n
get() = delegate.context\n\n private var result: Any? = initialResult\n\n public actual override fun
resumeWith(result: Result<T>) {\n val cur = this.result\n when {\n cur === UNDECIDED -> {\n
 this.result = result.value\n }\n cur === COROUTINE_SUSPENDED -> {\n this.result =
RESUMED\n delegate.resumeWith(result)\n }\n else -> throw
IllegalStateException(\"Already resumed\")\n }\n }\n\n @PublishedApi\n internal actual fun
getOrThrow(): Any? {\n if (result === UNDECIDED) {\n result = COROUTINE_SUSPENDED\n

```

```

return COROUTINE_SUSPENDED\n }\n val result = this.result\n return when {\n result ===
RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED
upstream\n result is Result.Failure -> throw result.exception\n else -> result // either
COROUTINE_SUSPENDED or data\n }\n}\n}\n\n",/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual open class CancellationException :
IllegalStateException {\n actual constructor() : super()\n actual constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) :
super(cause)\n}\n",/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n result.getOrThrow()\n}\n",/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\npublic external class Date() {\n public constructor(milliseconds:
Number)\n\n public constructor(dateString: String)\n\n public constructor(year: Int, month: Int)\n\n public
constructor(year: Int, month: Int, day: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n
public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n\n public fun getDate(): Int\n\n public fun getDay(): Int\n\n
public fun getFullYear(): Int\n\n public fun getHours(): Int\n\n public fun getMilliseconds(): Int\n\n public fun
getMinutes(): Int\n\n public fun getMonth(): Int\n\n public fun getSeconds(): Int\n\n public fun getTime():
Double\n\n public fun getTimezoneOffset(): Int\n\n public fun getUTCDate(): Int\n\n public fun
getUTCDay(): Int\n\n public fun getUTCFullYear(): Int\n\n public fun getUTCHours(): Int\n\n public fun
getUTCMilliseconds(): Int\n\n public fun getUTCMinutes(): Int\n\n public fun getUTCMonth(): Int\n\n public
fun getUTCSeconds(): Int\n\n public fun toDateString(): String\n\n public fun toISOString(): String\n\n public
fun toJSON(): Json\n\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales:
String, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleTimeString(locales:
Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun
toTimeString(): String\n\n public fun toUTCString(): String\n\n public companion object {\n public fun
now(): Double\n\n public fun parse(dateString: String): Double\n\n public fun UTC(year: Int, month: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int): Double\n\n public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n
public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n
}\n\n public interface LocaleOptions {\n public var localeMatcher: String?\n\n public var timeZone:
String?\n\n public var hour12: Boolean?\n\n public var formatMatcher: String?\n\n public var weekday:
String?\n\n public var era: String?\n\n public var year: String?\n\n public var month: String?\n\n
public var day: String?\n\n public var hour: String?\n\n public var minute: String?\n\n public var
second: String?\n\n public var timeZoneName: String?\n }\n}\n\npublic inline fun dateLocaleOptions(init:

```

```

Date.LocaleOptions() -> Unit): Date.LocaleOptions {
 val result = js("new
Object()\").unsafeCast<Date.LocaleOptions>()\n
 init(result)\n
 return result\n
}"/**\n
 * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
package kotlin.dom\n
import org.w3c.dom.Document\n
import org.w3c.dom.Element\n
import org.w3c.dom.Node\n
import kotlin.internal.LowPriorityInOverloadResolution\n
import kotlin.dom.appendChild as
newAppendElement\n
import kotlin.dom.createElement as newCreateElement\n
/**\n
 * Creates a new element
with the specified [name].\n
 */\n
 * The element is initialized with the specified [init] function.\n
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API is moved to another package,
use 'kotlinx.dom.createElement' instead.",\n
 replaceWith = ReplaceWith("this.createElement(name, init)"),\n
 "kotlinx.dom.createElement")\n
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
public
inline fun Document.createElement(name: String, noinline init: Element() -> Unit): Element =
this.newCreateElement(name, init)\n
/**\n
 * Appends a newly created element with the specified [name] to this
element.\n
 */\n
 * The element is initialized with the specified [init] function.\n
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API is moved to another package,
use 'kotlinx.dom.appendChild' instead.",\n
 replaceWith = ReplaceWith("this.appendChild(name, init)"),\n
 "kotlinx.dom.appendChild")\n
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
public
inline fun Element.appendChild(name: String, noinline init: Element() -> Unit): Element =
this.newAppendElement(name, init)\n
"/**\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
 */\n
package kotlin.dom\n
import org.w3c.dom.Element\n
import
kotlin.internal.LowPriorityInOverloadResolution\n
import kotlin.dom.addClass as newAddClass\n
import
kotlin.dom.hasClass as newHasClass\n
import kotlin.dom.removeClass as newRemoveClass\n
/**\n
 * Returns true if
the element has the given CSS class style in its 'class' attribute
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API is moved to another package,
use 'kotlinx.dom.hasClass' instead.",\n
 replaceWith = ReplaceWith("this.hasClass(cssClass)"),\n
 "kotlinx.dom.hasClass")\n
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
inline fun
Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)\n
/**\n
 * Adds CSS class to element.
Has no effect if all specified classes are already in class attribute of the element\n
 */\n
 * @return true if at least one
class has been added\n
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API is moved
to another package, use 'kotlinx.dom.addClass' instead.",\n
 replaceWith =
ReplaceWith("this.addClass(cssClasses)", "kotlinx.dom.addClass")\n
)
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
inline fun Element.addClass(vararg cssClasses: String): Boolean =
this.newAddClass(*cssClasses)\n
/**\n
 * Removes all [cssClasses] from element. Has no effect if all specified
classes are missing in class attribute of the element\n
 */\n
 * @return true if at least one class has been removed\n
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API is moved to another package,
use 'kotlinx.dom.removeClass' instead.",\n
 replaceWith = ReplaceWith("this.removeClass(cssClasses)"),\n
 "kotlinx.dom.removeClass")\n
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
inline fun
Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)"/**\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
package
kotlin.dom\n
import org.w3c.dom.Element\n
import org.w3c.dom.Node\n
import
kotlin.internal.LowPriorityInOverloadResolution\n
import kotlin.dom.isElement as newIsElement\n
import
kotlin.dom.isText as newIsText\n
/**\n
 * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n
 */\n
@LowPriorityInOverloadResolution\n
@Deprecated(\n
 message = "This API
is moved to another package, use 'kotlinx.dom.isText' instead.",\n
 replaceWith = ReplaceWith("this.isText"),\n
 "kotlinx.dom.isText")\n
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n
public val
Node.isText: Boolean\n
 inline get() = this.newIsText\n
/**\n
 * Gets a value indicating whether this node is an

```

```

[Element].\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to
another package, use 'kotlinx.dom.isElement' instead.\",\n replaceWith = ReplaceWith(\"this.isElement\",
\"kotlinx.dom.isElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isElement: Boolean\n inline get() = this.newIsElement\n\", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\npackage org.w3c.dom.events\n\npublic fun
EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class
EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\n public override fun
handleEvent(event: Event) {\n handler(event)\n }\n\n public override fun toString(): String =
\"EventListenerHandler($handler)\"\n}\n\", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n
val length: Int\n fun item(index: Int): T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>` collection as
`List<T>`\n *\n\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n override val
size: Int get() = this@asList.length\n\n override fun get(index: Int): T = when (index) {\n in 0..lastIndex ->
this@asList.item(index).unsafeCast<T>()\n else -> throw IndexOutOfBoundsException(\"index $index is not in
range [0..$lastIndex]\")\n }\n}\n\", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as
newAppendText\nimport kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node.
*\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package,
use 'kotlinx.dom.clear' instead.\",\n replaceWith = ReplaceWith(\"this.clear()\",
\"kotlinx.dom.clear\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun
Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this
element\n *\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another
package, use 'kotlinx.dom.appendText' instead.\",\n replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlinx.dom.appendText\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n *\n\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n *\n\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n *\n\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n val r: Any? = this\n return when {\n this[\"iterator\"] != null ->
this[\"iterator\"]()\n isArrayish(r) -> r.unsafeCast<Array<*>>().iterator()\n else ->
(r as Iterable<*>).iterator()\n }\n}\n\", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n// a package is omitted to get declarations directly under the
module\n\n@JsName(\"throwNPE\")\ninternal fun throwNPE(message: String) {\n throw
NullPointerException(message)\n}\n\n@JsName(\"throwCCE\")\ninternal fun throwCCE() {\n throw
ClassCastException(\"Illegal cast\")\n}\n\n@JsName(\"throwISE\")\ninternal fun throwISE(message: String) {\n

```

```

throw IllegalStateException(message)\n}\n\n@JsName("throwUPAE")\ninternal fun throwUPAE(propertyName:
String) {\n throw UninitializedPropertyAccessException("lateinit property ${propertyName} has not been
initialized")\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements
in each group.\n *\n * @return a [Map] associating the key of each group with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic actual fun
<T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n fold(0) { acc, _ -> acc + 1 }\n\n/**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group.\n *\n * @return a [Map] associating the key of each group with the count of element in the group.\n
*/\n@SinceKotlin("1.1")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n fold(0) { acc, e -> acc + valueSelector(e) }\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("GroupingKt")\n@file:kotlin.jvm.JvmMultifileClass\npackage
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n *\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n
* they group elements by their keys and then fold each group with some aggregating operation.\n *\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -
[Array.groupingBy]\n * - [CharSequence.groupingBy]\n *\n * For the list of group-and-fold operations available,
see the [extension functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin("1.1")\npublic interface
Grouping<T, out K> {\n /** Returns an [Iterator] over the elements of the source of this grouping. */\n fun
sourceIterator(): Iterator<T>\n /** Extracts the key of an [element]. */\n fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the
results in a new map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n *\n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.\n *\n * @sample
samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R>
Grouping<T, K>.aggregate(\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K,
R> {\n return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the
[Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the
previously accumulated value and the current element as arguments,\n * and stores the results in the given
[destination] map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param
operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group
this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's
the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * -
`first`: indicates whether it's the first `element` encountered in the group.\n *\n * If the [destination] map already has
a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as
`first`.\n *\n * @return the [destination] map associating the key of each group with the result of aggregation of the
group elements.\n *\n * @sample samples.collections.Grouping.aggregateByRadixTo\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n destination: M,\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M
{\n for (e in this.sourceIterator()) {\n val key = keyOf(e)\n val accumulator = destination[key]\n

```

```

destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n }
return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,\n * passing the previously accumulated value and the current element as
arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by
[initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of
accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the
first element being encountered in that group.\n *\n * @param operation a function that is invoked on each element
with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the
current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n
*\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *
@\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n
*/\n\n@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n initialValueSelector: (key: K,
element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n}\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that
provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the
group;\n * - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has
a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the
[initialValueSelector] function is not called for that group.\n *\n * @param operation a function that is invoked on
each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * -
`accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being
accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of
accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n */\n\n@SinceKotlin("1.1")\npublic
inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n
initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): M =\n @Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n}\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same
[initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the
result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n */\n\n@SinceKotlin("1.1")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n):
Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies
[operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current
element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator
is the same [initialValue] for each group.\n *\n * If the [destination] map already has a value corresponding to the key
of some group,\n * that value is used as an initial value of the accumulator for that group.\n *\n * @param operation
a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of
the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n *

```



```

@sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n
destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R)\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n\n**\n * Groups elements from the [Grouping] source by key and applies the
reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n
* passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new
map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a function that
is invoked on each subsequent element of the group with the following parameters:\n * - `key`: the key of the group
this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the
result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowels
*\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K,
accumulator: S, element: T) -> S)\n): Map<K, S> =\n aggregate { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n**\n * Groups
elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n *
sequentially starting from the second element of the group,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to
the key of some group,\n * that value is used as an initial value of the accumulator for that group and the first
element of that group is also\n * subjected to the [operation].\n *\n * @param operation a function that is invoked on
each subsequent element of the group with the following parameters:\n * - `accumulator`: the current value of the
accumulator of the group;\n * - `element`: the element from the source being folded;\n *\n * @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n *
@sample samples.collections.Grouping.reduceByMaxVowelsTo
*\n@SinceKotlin("1.1")\npublic inline fun <S,
T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key: K,
accumulator: S, element: T) -> S)\n): M =\n aggregateTo(destination) { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n**\n * Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *
*\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an
initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group
with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount
*\n@SinceKotlin("1.1")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachCountTo(destination: M): M =\n foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group\n * to the given [destination] map.\n *\n * If the [destination] map already has a value
corresponding to the key of some group,\n * that value is used as an initial value of the sum for that group.\n *\n
* @return the [destination] map associating the key of each group with the sum of elements in the group.\n *
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n foldTo(destination, 0) { acc, e -> acc +
valueSelector(e) }\n\n**\n * // TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M :
MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M
=\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T,
K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n fold(0L) { acc, e -> acc +
valueSelector(e) }\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n foldTo(destination, 0.0) { acc, e
-> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->
Double): Map<K, Double> =\n fold(0.0) { acc, e -> acc + valueSelector(e) }\n\n**\n * Copyright 2010-2018

```

JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\npackage kotlin.js\n\n \* An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n \*/\npublic external interface Json {\n /\*\n \* Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.\n \* E.g. for next code:\n \* ```kotlin\n \* fun test(j: Json, p: String) = j["prop"] + j.get(p)\n \* ```\n \* will be generated:\n \* ```js\n \* function test(j, p) {\n \* return j["prop"] + j[p];\n \* }\n \* ```\n \*/\n operator fun get(propertyName: String): Any?\n /\*\n \* Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\n \* E.g. for the following code:\n \* ```kotlin\n \* fun test(j: Json, p: String, newValue: Any) {\n \* j["prop"] = 1\n \* j.set(p, newValue)\n \* }\n \* ```\n \* will be generated:\n \* ```js\n \* function test(j, p, newValue) {\n \* j["prop"] = 1;\n \* j[p] = newValue;\n \* }\n \* ```\n \*/\n operator fun set(propertyName: String, value: Any?): Unit\n}\n\n \* Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n \*/\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n val res: dynamic = js("{}")\n for ((name, value) in pairs) {\n res[name] = value\n }\n return res\n}\n\n \* Adds key-value pairs from [other] to [this].\n \*/\npublic fun Json.add(other: Json): Json {\n val keys: Array<String> = js("Object").keys(other)\n for (key in keys) {\n if (other.asDynamic().hasOwnProperty(key)) {\n this[key] = other[key];\n }\n }\n return this\n}\n\n \* Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/JSON) to Kotlin.\n \*/\n@Suppress("NOT\_DOCUMENTED")\npublic external object JSON {\n public fun stringify(o: Any?): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?): String)\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n public fun stringify(o: Any?, replacer: Array<String>): String\n public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n public fun stringify(o: Any?, replacer: Array<String>, space: String): String\n\n public fun <T> parse(text: String): T\n public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?): T)\n}\n\n \* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\npackage kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath as nativeMath\n\n// region =====\n\n \* Computes the sine of the angle [x] given in radians.\n \* Special cases:\n \* - `sin(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\n\n \* Computes the cosine of the angle [x] given in radians.\n \* Special cases:\n \* - `cos(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n\n \* Computes the tangent of the angle [x] given in radians.\n \* Special cases:\n \* - `tan(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n\n \* Computes the arc sine of the value [x];\n \* the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n \* Special cases:\n \* - `asin(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n \* Computes the arc cosine of the value [x];\n \* the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.\n \* Special cases:\n \* - `acos(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n \* Computes the arc tangent of the value [x];\n \* the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n \* Special cases:\n \* - `atan(NaN)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n \* Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the

rectangular coordinates  $(x, y)$  by computing the arc tangent of the value  $y / x$ ; the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.

**Special cases:**

- $\text{atan2}(0.0, 0.0)$  is  $0.0$
- $\text{atan2}(0.0, x)$  is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$
- $\text{atan2}(-0.0, x)$  is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$
- $\text{atan2}(y, +\text{Inf})$  is  $0.0$  for  $0 < y < +\text{Inf}$  and  $-0.0$  for  $-\text{Inf} < y < 0$
- $\text{atan2}(y, -\text{Inf})$  is  $\pi$  for  $0 < y < +\text{Inf}$  and  $-\pi$  for  $-\text{Inf} < y < 0$
- $\text{atan2}(y, 0.0)$  is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$
- $\text{atan2}(+\text{Inf}, x)$  is  $\pi/2$  for finite  $x$
- $\text{atan2}(-\text{Inf}, x)$  is  $-\pi/2$  for finite  $x$
- $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is  $\text{NaN}$

```

* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun atan2(y: Double, x: Double): Double =
nativeMath.atan2(y, x) /n /n ** /n * Computes the hyperbolic sine of the value [x]. /n * /n * Special cases: /n * -
`sinh(NaN)` is `NaN` /n * - `sinh(+Inf)` is `+Inf` /n * - `sinh(-Inf)` is `-Inf` /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun sinh(x: Double): Double =
nativeMath.sinh(x) /n /n ** /n * Computes the hyperbolic cosine of the value [x]. /n * /n * Special cases: /n * -
`cosh(NaN)` is `NaN` /n * - `cosh(+Inf|-Inf)` is `+Inf` /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual
inline fun cosh(x: Double): Double = nativeMath.cosh(x) /n /n ** /n * Computes the hyperbolic tangent of the value
[x]. /n * /n * Special cases: /n * - `tanh(NaN)` is `NaN` /n * - `tanh(+Inf)` is `1.0` /n * - `tanh(-Inf)` is `-1.0` /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun tanh(x: Double): Double =
nativeMath.tanh(x) /n /n ** /n * Computes the inverse hyperbolic sine of the value [x]. /n * /n * The returned value is
`y` such that `sinh(y) == x`. /n * /n * Special cases: /n * - `asinh(NaN)` is `NaN` /n * - `asinh(+Inf)` is `+Inf` /n * -
`asinh(-Inf)` is `-Inf` /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun asinh(x: Double): Double
= nativeMath.asinh(x) /n /n ** /n * Computes the inverse hyperbolic cosine of the value [x]. /n * /n * The returned
value is positive `y` such that `cosh(y) == x`. /n * /n * Special cases: /n * - `acosh(NaN)` is `NaN` /n * - `acosh(x)`
is `NaN` when `x < 1` /n * - `acosh(+Inf)` is `+Inf` /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline
fun acosh(x: Double): Double = nativeMath.acosh(x) /n /n ** /n * Computes the inverse hyperbolic tangent of the
value [x]. /n * /n * The returned value is `y` such that `tanh(y) == x`. /n * /n * Special cases: /n * - `tanh(NaN)` is
`NaN` /n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1` /n * - `tanh(1.0)` is `+Inf` /n * - `tanh(-1.0)` is `-Inf` /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun atanh(x: Double): Double =
nativeMath.atanh(x) /n /n ** /n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. /n * /n *
Special cases: /n * - returns `+Inf` if any of arguments is infinite /n * - returns `NaN` if any of arguments is `NaN`
and the other is not infinite /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun hypot(x: Double, y:
Double): Double = nativeMath.hypot(x, y) /n /n ** /n * Computes the positive square root of the value [x]. /n * /n *
Special cases: /n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN` /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun sqrt(x: Double): Double =
nativeMath.sqrt(x) /n /n ** /n * Computes Euler's number `e` raised to the power of the value [x]. /n * /n * Special
cases: /n * - `exp(NaN)` is `NaN` /n * - `exp(+Inf)` is `+Inf` /n * - `exp(-Inf)` is `0.0` /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun exp(x: Double): Double =
nativeMath.exp(x) /n /n ** /n * Computes `exp(x) - 1`. /n * /n * This function can be implemented to produce more
precise result for [x] near zero. /n * /n * Special cases: /n * - `expm1(NaN)` is `NaN` /n * - `expm1(+Inf)` is `+Inf` /n
* - `expm1(-Inf)` is -1.0 /n * /n * @see [exp] function. /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual
inline fun expm1(x: Double): Double = nativeMath.expm1(x) /n /n ** /n * Computes the logarithm of the value [x] to
the given [base]. /n * /n * Special cases: /n * - $\log(x, b)$ is NaN if either x or b are NaN /n * - $\log(x, b)$ is
 NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$ /n * - $\log(+\text{Inf}, +\text{Inf})$ is NaN /n * - $\log(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$
and $-\text{Inf}$ for $b < 1$ /n * - $\log(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b > 1$ /n * See also logarithm
functions for common fixed bases: [ln], [log10] and [log2]. /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual fun log(x:
Double, base: Double): Double { /n if (base <= 0.0 || base == 1.0) return Double.NaN /n return nativeMath.log(x)
/ nativeMath.log(base) /n } /n /n ** /n * Computes the natural logarithm (base `E`) of the value [x]. /n * /n * Special
cases: /n * - $\ln(\text{NaN})$ is NaN /n * - $\ln(x)$ is NaN when $x < 0.0$ /n * - $\ln(+\text{Inf})$ is $+\text{Inf}$ /n * - $\ln(0.0)$ is $-\text{Inf}$ /n
* /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun ln(x: Double): Double =
nativeMath.log(x) /n /n ** /n * Computes the common logarithm (base 10) of the value [x]. /n * /n * @see [ln] function
for special cases. /n * /n @SinceKotlin("1.2") /n @InlineOnly /n public actual inline fun log10(x: Double): Double =

```

`nativeMath.log10(x)` Computes the binary logarithm (base 2) of the value [x]. @see [ln] function for special cases.
   
`nativeMath.log2(x)` Computes  $\ln(x + 1)$ . This function can be implemented to produce more precise result for [x] near zero. Special cases:  $-\ln1p(\text{NaN})$  is  $\text{NaN}$   $-\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$   $-\ln1p(-1.0)$  is  $-\text{Inf}$   $-\ln1p(+\text{Inf})$  is  $+\text{Inf}$  @see [ln] function @see [expm1] function
   
`nativeMath.log1p(x)` Rounds the given value [x] to an integer towards positive infinity. @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer. Special cases:  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
   
`nativeMath.ceil(x)` Rounds the given value [x] to an integer towards negative infinity. @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer. Special cases:  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
   
`nativeMath.floor(x)` Rounds the given value [x] to an integer towards zero. @return the value [x] having its fractional part truncated. Special cases:  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
   
`nativeMath.truncate(x)` Rounds the given value [x] towards the closest integer with ties rounded towards even integer. Special cases:  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
   
`nativeMath.round(x)` Returns the absolute value of the given value [x]. Special cases:  $\text{abs}(\text{NaN})$  is  $\text{NaN}$  @see absoluteValue extension property for [Double]
   
`nativeMath.abs(x)` Returns the sign of the given value [x]:  $-1.0$  if the value is negative,  $0$  if the value is zero,  $1.0$  if the value is positive. Special case:  $\text{sign}(\text{NaN})$  is  $\text{NaN}$ 
  
`nativeMath.sign(x)` Returns the smaller of two values. If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .
   
`nativeMath.min(a, b)` Returns the greater of two values. If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .
   
`nativeMath.max(a, b)` Raises this value to the power [x]. Special cases:  $\text{b.pow}(0.0)$  is  $1.0$   $\text{b.pow}(1.0) == b$   $\text{b.pow}(\text{NaN})$  is  $\text{NaN}$   $\text{NaN.pow}(x)$  is  $\text{NaN}$  for  $x != 0.0$   $\text{b.pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$   $\text{b.pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not an integer
   
`Double.pow(x)` Returns this value to the integer power [n]. See the other overload of [pow] for details.
   
`Double.pow(n)` Returns the absolute value of this value. Special cases:  $\text{NaN.absoluteValue}$  is  $\text{NaN}$  @see abs function
   
`Double.absoluteValue` Returns the sign of this value:  $-1.0$  if the value is negative,  $0$  if the value is zero,  $1.0$  if the value is positive. Special case:  $\text{NaN.sign}$  is  $\text{NaN}$ 
  
`Double.sign` Returns this value with the sign bit same as of the [sign] value.
   
`Double.withSign(sign)` Returns the ulp (unit in the last place) of this value. An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude. Special Cases:  $\text{NaN.ulp}$  is  $\text{NaN}$   $x.ulp$  is  $+\text{Inf}$  when  $x$  is  $+\text{Inf}$  or  $-\text{Inf}$   $0.0.ulp$  is `Double.MIN_VALUE`
  
`Double.ulp` Returns the ulp (unit in the last place) of this value.

```

< 0 -> (-this).ulp\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this ==
Double.MAX_VALUE -> this - this.nextDown()\n else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double]
value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin("1.2")\npublic actual fun
Double.nextUp(): Double = when {\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this == 0.0
-> Double.MIN_VALUE\n else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n *
Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double = when {\n this.isNaN() || this ==
Double.NEGATIVE_INFINITY -> this\n this == 0.0 -> -Double.MIN_VALUE\n else ->
Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/**\n * Returns the [Double] value nearest to this
value in direction from this value towards the value [to].\n */\n * Special cases:\n * - `x.nextTowards(y)` is `NaN` if
either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n */\n@SinceKotlin("1.2")\npublic actual fun
Double.nextTowards(to: Double): Double = when {\n this.isNaN() || to.isNaN() -> Double.NaN\n to == this ->
to\n to > this -> this.nextUp()\n else /* to < this */ -> this.nextDown()\n}\n\n/**\n * Rounds this [Double]
value to the nearest integer and converts the result to [Int].\n */\n * Ties are rounded towards positive infinity.\n */\n *
Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt()
== Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n */\n * @throws IllegalArgumentException when this value is
`NaN`\n */\n@SinceKotlin("1.2")\npublic actual fun Double.roundToInt(): Int = when {\n isNaN() -> throw
IllegalArgumentException("Cannot round NaN value.")\n this > Int.MAX_VALUE -> Int.MAX_VALUE\n this < Int.MIN_VALUE -> Int.MIN_VALUE\n else -> nativeMath.round(this).toInt()\n}\n\n/**\n * Rounds this
[Double] value to the nearest integer and converts the result to [Long].\n */\n * Ties are rounded towards positive
infinity.\n */\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x >
Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n */\n * @throws
IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin("1.2")\npublic actual fun
Double.roundToLong(): Long = when {\n isNaN() -> throw IllegalArgumentException("Cannot round NaN
value.")\n this > Long.MAX_VALUE -> Long.MAX_VALUE\n this < Long.MIN_VALUE ->
Long.MIN_VALUE\n else -> nativeMath.round(this).toLong()\n}\n\n// endregion\n\n// region
==== Float Math =====\n\n/**\n * Computes the
sine of the angle [x] given in radians.\n */\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float =
nativeMath.sin(x.toDouble()).toFloat()\n\n/**\n * Computes the cosine of the angle [x] given in radians.\n */\n * Special
cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun
cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/**\n * Computes the tangent of the angle [x] given in
radians.\n */\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float =
nativeMath.tan(x.toDouble()).toFloat()\n\n/**\n * Computes the arc sine of the value [x];\n */\n * the returned value is
an angle in the range from $-\pi/2$ to $\pi/2$ radians.\n */\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float =
nativeMath.asin(x.toDouble()).toFloat()\n\n/**\n * Computes the arc cosine of the value [x];\n */\n * the returned value
is an angle in the range from 0.0 to π radians.\n */\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float =
nativeMath.acos(x.toDouble()).toFloat()\n\n/**\n * Computes the arc tangent of the value [x];\n */\n * the returned value
is an angle in the range from $-\pi/2$ to $\pi/2$ radians.\n */\n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float =
nativeMath.atan(x.toDouble()).toFloat()\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that
correspond\n */\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value y / x ;\n */\n * the
returned value is an angle in the range from $-\pi$ to π radians.\n */\n * Special cases:\n * - `atan2(0.0, 0.0)` is
 0.0 \n * - `atan2(0.0, x)` is 0.0 for $x > 0$ and π for $x < 0$ \n * - `atan2(-0.0, x)` is -0.0 for $x > 0$ and $-\pi$
for $x < 0$ \n * - `atan2(y, +Inf)` is 0.0 for $0 < y < +Inf$ and -0.0 for $-\pi < y < 0$ \n * - `atan2(y, -Inf)` is π
for $0 < y < -Inf$ and $-\pi$ for $-\pi < y < 0$

```

for  $0 < y < +\infty$  and  $-\pi$  for  $-\infty < y < 0$  \*  $-\operatorname{atan2}(y, 0.0)$  is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$  \*  $-\operatorname{atan2}(+\infty, x)$  is  $\pi/2$  for finite  $x$  \*  $-\operatorname{atan2}(-\infty, x)$  is  $-\pi/2$  for finite  $x$  \*  $-\operatorname{atan2}(\text{NaN}, x)$  and  $\operatorname{atan2}(y, \text{NaN})$  is  $\text{NaN}$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()` \* Computes the hyperbolic sine of the value  $[x]$  \* Special cases: \*  $\sinh(\text{NaN})$  is  $\text{NaN}$  \*  $\sinh(+\infty)$  is  $+\infty$  \*  $\sinh(-\infty)$  is  $-\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()` \* Computes the hyperbolic cosine of the value  $[x]$  \* Special cases: \*  $\cosh(\text{NaN})$  is  $\text{NaN}$  \*  $\cosh(+\infty)$  is  $+\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()` \* Computes the hyperbolic tangent of the value  $[x]$  \* Special cases: \*  $\tanh(\text{NaN})$  is  $\text{NaN}$  \*  $\tanh(+\infty)$  is  $1.0$  \*  $\tanh(-\infty)$  is  $-1.0$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()` \* Computes the inverse hyperbolic sine of the value  $[x]$  \* The returned value is  $y$  such that  $\sinh(y) == x$  \* Special cases: \*  $\operatorname{asinh}(\text{NaN})$  is  $\text{NaN}$  \*  $\operatorname{asinh}(+\infty)$  is  $+\infty$  \*  $\operatorname{asinh}(-\infty)$  is  $-\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()` \* Computes the inverse hyperbolic cosine of the value  $[x]$  \* The returned value is positive  $y$  such that  $\cosh(y) == x$  \* Special cases: \*  $\operatorname{acosh}(\text{NaN})$  is  $\text{NaN}$  \*  $\operatorname{acosh}(x)$  is  $\text{NaN}$  when  $x < 1$  \*  $\operatorname{acosh}(+\infty)$  is  $+\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()` \* Computes the inverse hyperbolic tangent of the value  $[x]$  \* The returned value is  $y$  such that  $\tanh(y) == x$  \* Special cases: \*  $\operatorname{atanh}(\text{NaN})$  is  $\text{NaN}$  \*  $\operatorname{atanh}(x)$  is  $\text{NaN}$  when  $x > 1$  or  $x < -1$  \*  $\operatorname{atanh}(1.0)$  is  $+\infty$  \*  $\operatorname{atanh}(-1.0)$  is  $-\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()` \* Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow. \* Special cases: \* returns  $+\infty$  if any of arguments is infinite \* returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()` \* Computes the positive square root of the value  $[x]$  \* Special cases: \*  $\sqrt{x}$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()` \* Computes Euler's number  $e$  raised to the power of the value  $[x]$  \* Special cases: \*  $\exp(\text{NaN})$  is  $\text{NaN}$  \*  $\exp(+\infty)$  is  $+\infty$  \*  $\exp(-\infty)$  is  $0.0$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()` \* Computes  $\exp(x) - 1$  \* This function can be implemented to produce more precise result for  $[x]$  near zero. \* Special cases: \*  $\operatorname{expm1}(\text{NaN})$  is  $\text{NaN}$  \*  $\operatorname{expm1}(+\infty)$  is  $+\infty$  \*  $\operatorname{expm1}(-\infty)$  is  $-1.0$  \* @see [exp] function. \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()` \* Computes the logarithm of the value  $[x]$  to the given [base]. \* Special cases: \*  $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$  \*  $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$  \*  $\log(+\infty, +\infty)$  is  $\text{NaN}$  \*  $\log(+\infty, b)$  is  $+\infty$  for  $b > 1$  and  $-\infty$  for  $b < 1$  \*  $\log(0.0, b)$  is  $-\infty$  for  $b > 1$  and  $+\infty$  for  $b > 1$  \* See also logarithm functions for common fixed bases: [ln], [log10] and [log2]. \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()` \* Computes the natural logarithm (base  $E$ ) of the value  $[x]$  \* Special cases: \*  $\ln(\text{NaN})$  is  $\text{NaN}$  \*  $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$  \*  $\ln(+\infty)$  is  $+\infty$  \*  $\ln(0.0)$  is  $-\infty$  \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()` \* Computes the common logarithm (base 10) of the value  $[x]$  \* @see [ln] function for special cases. \* `@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()` \* Computes the binary logarithm (base 2) of the value  $[x]$  \* @see [ln] function for special cases.

```

*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float =
nativeMath.log2(x.toDouble()).toFloat()\n\n/**\n * Computes $\ln(a + 1)$. \n * This function can be implemented
to produce more precise result for [x] near zero.\n * Special cases:\n * - $\ln1p(\text{NaN})$ is NaN \n * - $\ln1p(x)$
is NaN where $x < -1.0$ \n * - $\ln1p(-1.0)$ is $-\text{Inf}$ \n * - $\ln1p(+\text{Inf})$ is $+\text{Inf}$ \n * @see [ln] function\n *
@see [expm1] function\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float =
nativeMath.log1p(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards positive
infinity.\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a
mathematical integer.\n * Special cases:\n * - $\text{ceil}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a
mathematical integer.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float =
nativeMath.ceil(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards negative
infinity.\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a
mathematical integer.\n * Special cases:\n * - $\text{floor}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a
mathematical integer.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float =
nativeMath.floor(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *
@return the value [x] having its fractional part truncated.\n * Special cases:\n * - $\text{truncate}(x)$ is x where x
is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x]
towards the closest integer with ties rounded towards even integer.\n * Special cases:\n * - $\text{round}(x)$ is x
where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun round(x: Float): Float =
round(x.toDouble()).toFloat()\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:\n
* - $\text{abs}(\text{NaN})$ is NaN \n * @see absoluteValue extension property for [Float]\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()\n\n/**\n * Returns the sign of the given value [x]:\n * - -1.0 if the value is
negative,\n * - zero if the value is zero,\n * - 1.0 if the value is positive\n * Special case:\n * - $\text{sign}(\text{NaN})$
is NaN \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float =
nativeMath.sign(x.toDouble()).toFloat()\n\n/**\n * Returns the smaller of two values.\n * If either value is
 NaN , then the result is NaN . \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Float, b:
Float): Float = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n * If either value is NaN ,
then the result is NaN . \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float):
Float = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n * Special
cases:\n * - $b.\text{pow}(0.0)$ is 1.0 \n * - $b.\text{pow}(1.0) == b$ \n * - $b.\text{pow}(\text{NaN})$ is NaN \n * - $\text{NaN}.\text{pow}(x)$ is
 NaN for $x != 0.0$ \n * - $b.\text{pow}(\text{Inf})$ is NaN for $\text{abs}(b) == 1.0$ \n * - $b.\text{pow}(x)$ is NaN for $b < 0$ and x is
finite and not an integer\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float):
Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises this value to the integer power
[n].\n * See the other overload of [pow] for details.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the
absolute value of this value.\n * Special cases:\n * - $\text{NaN}.\text{absoluteValue}$ is NaN \n * @see abs function\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() =
nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n * - -1.0 if the value is
negative,\n * - zero if the value is zero,\n * - 1.0 if the value is positive\n * Special case:\n * - $\text{NaN}.\text{sign}$ is
 NaN \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.sign: Float get() =
nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign]
value.\n * If [sign] is NaN the sign of the result is undefined.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Rounds this [Float] value to the nearest integer and

```

```

converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x
< Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n// endregion\n\n// region ===== Integer Math
=====
\n\n\n/**\n * Returns the absolute value of the given value
[n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see
absoluteValue extension property for [Int]\n *\n// TODO: remove manual 'or' when KT-19290 is
fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the
smaller of two values.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n *
Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n *\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -
> 1\n else -> 0\n}\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension
property for [Long]\n *\n@SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else
n\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun min(a: Long, b:
Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
* - `1` if the value is positive\n *\n@SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n this
< 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n\n// endregion\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns `true` if the specified
number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n *\n@public actual fun Double.isNaN(): Boolean =
this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*/\n@public actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is infinitely large in
magnitude.\n *\n@public actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this ==
Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n *\n@public
actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this ==
Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns
`false` otherwise (for `NaN` and infinity arguments).\n *\n@public actual fun Double.isFinite(): Boolean =
!isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false`
otherwise (for `NaN` and infinity arguments).\n *\n@public actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n

```



```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF) + (v.ushr(16))\n return v}\n\n/**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation of this [Int] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Int.countLeadingZeroBits(): Int = JsMath.clz32(this)\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countTrailingZeroBits(): Int =\n // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with
countLeadingZeroBits\n Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n *
Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or
zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -
this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n\n/**\n * Rotates the
binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant
bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating
the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n\n/**\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is
zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeHighestOneBit(): Long =\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(),
0)\n else -> Long(0, high.takeHighestOneBit())\n }\n\n\n/**\n * Returns a number having a single bit set in the

```

```

position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n else -> Long(low.takeLowestOneBit(), 0)\n }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit
count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.rotateLeft(bitCount: Int): Long {\n if ((bitCount and 31) != 0) {\n val low = this.low\n val high =
this.high\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)\n } else {\n return if ((bitCount and 32) == 0) this else Long(high, low)\n }\n}\n\n/**\n *
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n
*\n@Suppress("NOT_DOCUMENTED")\npublic open external class Promise<out T>(executor: (resolve: (T) ->
Unit, reject: (Throwable) -> Unit) -> Unit) {\n @LowPriorityInOverloadResolution\n public open fun <S>
then(onFulfilled: ((T) -> S)?): Promise<S>\n\n @LowPriorityInOverloadResolution\n public open fun <S>
then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n companion object {\n public fun <S> all(promise:
Array<out Promise<S>>): Promise<Array<out S>>\n\n public fun <S> race(promise: Array<out
Promise<S>>): Promise<S>\n\n public fun reject(e: Throwable): Promise<Nothing>\n\n public fun <S>
resolve(e: S): Promise<S>\n\n public fun <S> resolve(e: Promise<S>): Promise<S>\n }\n}\n\n// It's workaround
for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n return
this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n noinline
onFulfilled: ((T) -> S)?,\n noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\n *\npackage kotlin.random\n\nimport
kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n Random(js{"(Math.random() *
Math.pow(2, 32)) | 0"}).unsafeCast<Int>())\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val
INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n hi26 *
INV_2_26 + low27 * INV_2_53", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n *\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n *\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]

```

annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`, or by using the compiler argument `-Xopt-in=kotlin.reflect.ExperimentalAssociatedObjects`.

```

@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@Retention(value = AnnotationRetention.BINARY)
public annotation class ExperimentalAssociatedObjects

/**
 * Makes the annotated annotation class an associated object key.
 * An associated object key annotation should have single [KClass] parameter.
 * When applied to a class with reference to an object declaration as an argument, it binds the object to the class, making this binding discoverable at runtime using [findAssociatedObject].
 */
@ExperimentalAssociatedObjects
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class AssociatedObjectKey

/**
 * If [T] is an @[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (S::class), returns object `S`.
 * Otherwise returns `null`.
 */
@ExperimentalAssociatedObjects
public inline fun <reified T : Annotation> KClass<*>.findAssociatedObject(): Any? = this.findAssociatedObject(T::class)

/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.js
import getKClass
import kotlin.reflect.KClass
import kotlin.reflect.js.internal.KClassImpl

/**
 * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.
 */
external interface JsClass<T : Any> {
 /**
 * Returns the unqualified name of the class represented by this instance.
 */
 val name: String
}

/**
 * Obtains a constructor reference for the given `KClass`.
 */
nval <T : Any> KClass<T>.js: JsClass<T>
 get() = (this as KClassImpl<T>).jClass

/**
 * Obtains a `KClass` instance for the given constructor reference.
 */
nval <T : Any> JsClass<T>.kotlin: KClass<T>
 get() = getKClass(this)

/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.reflect.js.internal
import kotlin.reflect.*
internal abstract class KClassImpl<T : Any> {
 internal open val jClass: JsClass<T> : KClass<T> {
 override val qualifiedName: String?
 get() = TODO()
 override fun equals(other: Any?): Boolean {
 return other is KClassImpl<*> && jClass == other.jClass
 }
 // TODO: use FQN
 override fun hashCode(): Int = simpleName?.hashCode() ?: 0
 override fun toString(): String {
 // TODO: use FQN
 return "class $simpleName"
 }
 }
 internal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {
 override val simpleName: String? = jClass.asDynamic().$metadata$.simpleName.unsafeCast<String?>()
 override fun isInstance(value: Any?): Boolean {
 return jsIsType(value, jClass)
 }
 }
 internal class PrimitiveKClassImpl<T : Any>(jClass: JsClass<T>, private val givenSimpleName: String, private val isInstanceFunction: (Any?) -> Boolean) : KClassImpl<T>(jClass) {
 override fun equals(other: Any?): Boolean {
 if (other !is PrimitiveKClassImpl<*>) return false
 return super.equals(other) && givenSimpleName == other.givenSimpleName
 }
 override val simpleName: String?
 get() = givenSimpleName
 override fun isInstance(value: Any?): Boolean {
 return isInstanceFunction(value)
 }
 }
 internal object NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {
 override val simpleName: String = "Nothing"
 override fun isInstance(value: Any?): Boolean = false
 override val jClass: JsClass<Nothing>
 get() = throw UnsupportedOperationException("There's no native JS class for Nothing type")
 override fun equals(other: Any?): Boolean = other === this
 override fun hashCode(): Int = 0
 }
 internal class ErrorKClass : KClass<Nothing> {
 override val simpleName: String?
 get() = error("Unknown simpleName for ErrorKClass")
 override val qualifiedName: String?
 get() = error("Unknown qualifiedName for ErrorKClass")
 override fun isInstance(value: Any?): Boolean = error("Can't check isInstance on ErrorKClass")
 override fun equals(other: Any?): Boolean = other === this
 override fun hashCode(): Int = 0
 }
}

/**
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.reflect
internal actual inline val KClass<*>.qualifiedOrSimpleName: String?
 get() = simpleName

```

Copyright 2010-2018 JetBrains s.r.o.

```

and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under
the module\n\n// TODO: Remove once JsReflectionAPIChecker supports more reflection
types\n@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\nimport
kotlin.reflect.js.internal.*\n\n@JsName("createKType")\ninternal fun createKType(\n classifier: KClassifier,\n
arguments: Array<KTypeProjection>,\n isMarkedNullable: Boolean)\n =\n KTypeImpl(classifier,\n
arguments.asList(), isMarkedNullable)\n\n@JsName("createDynamicKType")\ninternal fun
createDynamicKType(): KType = DynamicKType\n\n@JsName("markKTypeNullable")\ninternal fun
markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,\n
true)\n\n@JsName("createKTypeParameter")\ninternal fun createKTypeParameter(\n name: String,\n
upperBounds: Array<KType>,\n variance: String)\n: KTypeParameter {\n val kVariance = when (variance) {\n
"in" -> KVariance.IN\n "out" -> KVariance.OUT\n else -> KVariance.INVARIANT\n }\n\n return
KTypeParameterImpl(name, upperBounds.asList(), kVariance,\n
false)\n}\n\n@JsName("getStarKTypeProjection")\ninternal fun getStarKTypeProjection(): KTypeProjection =\n
KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\ninternal fun
createCovariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\ninternal fun
createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean)\n : KType {\n override fun equals(other: Any?): Boolean =\n other
is KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments &&
isMarkedNullable == other.isMarkedNullable\n\n override fun hashCode(): Int =\n (classifier.hashCode() * 31
+ arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val
kClass = (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null ->
classifier.toString()\n kClass.simpleName != null -> kClass.simpleName\n else -> "(non-denotable
type)"\n }\n\n val args =\n if (arguments.isEmpty()) ""\n else arguments.joinToString(", ",
"<", ">") { it.asString() }\n\n val nullable = if (isMarkedNullable) "?"\n else ""\n\n return classifierName
+ args + nullable\n }\n\n // TODO: this should be the implementation of KTypeProjection.toString, see KT-
30071\n private fun KTypeProjection.asString(): String {\n if (variance == null) return "*" \n return
variance.prefixString() + type.toString()\n }\n}\n\ninternal object DynamicKType : KType {\n override val
classifier: KClassifier? = null\n override val arguments: List<KTypeProjection> = emptyList()\n override val
isMarkedNullable: Boolean = false\n override fun toString(): String = "dynamic"\n}\n\ninternal fun
KVariance.prefixString() =\n when (this) {\n KVariance.INVARIANT -> ""\n KVariance.IN -> "in "\n
KVariance.OUT -> "out "\n }\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class
KTypeParameterImpl(\n override val name: String,\n override val upperBounds: List<KType>,\n override val
variance: KVariance,\n override val isReified: Boolean)\n : KTypeParameter {\n override fun toString(): String
= name\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\ninternal
object PrimitiveClasses {\n @JsName("anyClass")\n val anyClass =
PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n}\n

```

```

@JsName("numberClass")\n val numberClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n
@JsName("nothingClass")\n val nothingClass = NothingKClassImpl\n\n @JsName("booleanClass")\n val
booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean
})\n\n @JsName("byteClass")\n val byteClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n
@JsName("shortClass")\n val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(),
"Short", { it is Short })\n\n @JsName("intClass")\n val intClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })\n\n
@JsName("floatClass")\n val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(),
"Float", { it is Float })\n\n @JsName("doubleClass")\n val doubleClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n\n
@JsName("arrayClass")\n val arrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>(), "Array", { it is Array<*> })\n\n
@JsName("stringClass")\n val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(),
"String", { it is String })\n\n @JsName("throwableClass")\n val throwableClass =
PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })\n\n
@JsName("booleanArrayClass")\n val booleanArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray
})\n\n @JsName("charArrayClass")\n val charArrayClass =
PrimitiveKClassImpl(js("UInt16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray
})\n\n @JsName("byteArrayClass")\n val byteArrayClass =
PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n
@JsName("shortArrayClass")\n val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray
})\n\n @JsName("intArrayClass")\n val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n\n
@JsName("longArrayClass")\n val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n\n
@JsName("floatArrayClass")\n val floatArrayClass =
PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray
})\n\n @JsName("doubleArrayClass")\n val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is
DoubleArray })\n\n @JsName("functionClass")\n fun functionClass(arity: Int): KClassImpl<Any> {\n
return functionClasses.get(arity) ?: run {\n val result =
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n
{ jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n functionClasses.asDynamic()[arity]
= result\n result\n })\n }\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0), /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n a package is omitted to get declarations directly under the module\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\n\ninternal fun <T : Any>
getKClass(jClass: Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {\n return if
(js("Array").isArray(jClass)) {\n getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n } else {\n
getKClass1(jClass.unsafeCast<JsClass<T>>())\n }\n}\n\n@JsName("getKClassM")\n\ninternal fun <T : Any>
getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n 1 ->
getKClass1(jClasses[0])\n 0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n else ->
ErrorKClass().unsafeCast<KClass<T>>()\n }\n\n@JsName("getKClassFromExpression")\n\ninternal fun <T : Any>

```

```

getKClassFromExpression(e: T): KClass<T> = \n when (jsTypeOf(e)) {\n \"string\" ->
PrimitiveClasses.stringClass\n \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n \"boolean\" -> PrimitiveClasses.booleanClass\n
 \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n else -> {\n when {\n e
is BooleanArray -> PrimitiveClasses.booleanArrayClass\n e is CharArray ->
PrimitiveClasses.charArrayClass\n e is ByteArray -> PrimitiveClasses.byteArrayClass\n e is
ShortArray -> PrimitiveClasses.shortArrayClass\n e is IntArray -> PrimitiveClasses.intArrayClass\n
 e is LongArray -> PrimitiveClasses.longArrayClass\n e is FloatArray ->
PrimitiveClasses.floatArrayClass\n e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n e is
KClass<*> -> KClass::class\n e is Array<*> -> PrimitiveClasses.arrayClass\n else -> {\n
 val constructor = js(\"Object\").getPrototypeOf(e).constructor\n when {\n constructor
=== js(\"Object\") -> PrimitiveClasses.anyClass\n constructor === js(\"Error\") ->
PrimitiveClasses.throwableClass\n else -> {\n val jsClass: JsClass<T> =
constructor\n getKClass1(jsClass)\n }\n }\n }\n }\n }
}.unsafeCast<KClass<T>>()\n\n@JsName(\"getKClass1\")\ninternal fun <T : Any> getKClass1(jClass:
JsClass<T>): KClass<T> {\n if (jClass === js(\"String\")) return
PrimitiveClasses.stringClass\n unsafeCast<KClass<T>>()\n\n val metadata = jClass.asDynamic().`$metadata$`\n\n
return if (metadata != null) {\n if (metadata.`$kClass$` == null) {\n val kClass =
SimpleKClassImpl(jClass)\n metadata.`$kClass$` = kClass\n kClass\n } else {\n
metadata.`$kClass$`\n }\n } else {\n SimpleKClassImpl(jClass)\n }\n}, \"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes
the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n
*\n\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n\n public fun test(str: String): Boolean\n\n public fun exec(str: String): RegExpMatch?\n\n
 public override fun toString(): String\n\n /**\n * The lastIndex is a read/write integer property of regular
expressions that specifies the index at which to start the next match.\n */\n\n public var lastIndex: Int\n\n public
val global: Boolean\n public val ignoreCase: Boolean\n public val multiline: Boolean\n}\n\n/**\n * Resets the
regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
of the input string.\n */\n\npublic fun RegExp.reset() {\n lastIndex = 0\n}\n\n// TODO: Inherit from array or
introduce asArray() extension\n\n/**\n * Represents the return value of [RegExp.exec].\n
*\n\n@Suppress(\"NOT_DOCUMENTED\")\npublic external interface RegExpMatch {\n public val index: Int\n
public val input: String\n public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if
the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n */\n\npublic inline
operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of
[RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element
is the text matched by each capturing parenthesis.\n */\n\npublic inline fun RegExpMatch.asArray(): Array<out
String?> = unsafeCast<Array<out String?>>()\n\n,\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class
ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n private var
sequenceRef: Sequence<T>? = sequence\n\n actual override fun iterator(): Iterator<T> {\n val sequence =
sequenceRef ?: throw IllegalStateException(\"This sequence can be consumed only once.\")\n sequenceRef =
null\n return sequence.iterator()\n }\n}\n\n,\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n@SinceKotlin(\"1.5\")\npublic actual enum
class CharCategory(internal val value: Int, public actual val code: String) {\n /**\n * General category \"Cn\" in

```

```

the Unicode specification.\n *^n UNASSIGNED(0, \"Cn\"),\n\n /**\n * General category \"Lu\" in the
Unicode specification.\n *^n UPPERCASE_LETTER(1, \"Ll\"),\n\n /**\n * General category \"Ll\" in the
Unicode specification.\n *^n LOWERCASE_LETTER(2, \"Ll\"),\n\n /**\n * General category \"Ll\" in the
Unicode specification.\n *^n TITLECASE_LETTER(3, \"Ll\"),\n\n /**\n * General category \"Lm\" in the
Unicode specification.\n *^n MODIFIER_LETTER(4, \"Lm\"),\n\n /**\n * General category \"Lo\" in the
Unicode specification.\n *^n OTHER_LETTER(5, \"Lo\"),\n\n /**\n * General category \"Mn\" in the
Unicode specification.\n *^n NON_SPACING_MARK(6, \"Mn\"),\n\n /**\n * General category \"Me\" in
the Unicode specification.\n *^n ENCLOSING_MARK(7, \"Mc\"),\n\n /**\n * General category \"Mc\" in
the Unicode specification.\n *^n COMBINING_SPACING_MARK(8, \"Mc\"),\n\n /**\n * General
category \"Nd\" in the Unicode specification.\n *^n DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n /**\n *
General category \"Nl\" in the Unicode specification.\n *^n LETTER_NUMBER(10, \"Nl\"),\n\n /**\n *
General category \"No\" in the Unicode specification.\n *^n OTHER_NUMBER(11, \"No\"),\n\n /**\n *
General category \"Zs\" in the Unicode specification.\n *^n SPACE_SEPARATOR(12, \"Zs\"),\n\n /**\n *
General category \"Zl\" in the Unicode specification.\n *^n LINE_SEPARATOR(13, \"Zl\"),\n\n /**\n *
General category \"Zp\" in the Unicode specification.\n *^n PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n
/**\n * General category \"Cc\" in the Unicode specification.\n *^n CONTROL(15, \"Cc\"),\n\n /**\n *
General category \"Cf\" in the Unicode specification.\n *^n FORMAT(16, \"Cf\"),\n\n /**\n * General
category \"Co\" in the Unicode specification.\n *^n PRIVATE_USE(18, \"Co\"),\n\n /**\n * General
category \"Cs\" in the Unicode specification.\n *^n SURROGATE(19, \"Cs\"),\n\n /**\n * General category
\"Pd\" in the Unicode specification.\n *^n DASH_PUNCTUATION(20, \"Pd\"),\n\n /**\n * General
category \"Ps\" in the Unicode specification.\n *^n START_PUNCTUATION(21, \"Ps\"),\n\n /**\n *
General category \"Pe\" in the Unicode specification.\n *^n END_PUNCTUATION(22, \"Pe\"),\n\n /**\n *
General category \"Pc\" in the Unicode specification.\n *^n CONNECTOR_PUNCTUATION(23, \"Pc\"),\n\n
/**\n * General category \"Po\" in the Unicode specification.\n *^n OTHER_PUNCTUATION(24,
\"Po\"),\n\n /**\n * General category \"Sm\" in the Unicode specification.\n *^n MATH_SYMBOL(25,
\"Sm\"),\n\n /**\n * General category \"Sc\" in the Unicode specification.\n *^n
CURRENCY_SYMBOL(26, \"Sc\"),\n\n /**\n * General category \"Sk\" in the Unicode specification.\n *^n
MODIFIER_SYMBOL(27, \"Sk\"),\n\n /**\n * General category \"So\" in the Unicode specification.\n *^n
OTHER_SYMBOL(28, \"So\"),\n\n /**\n * General category \"Pi\" in the Unicode specification.\n *^n
INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n /**\n * General category \"Pf\" in the Unicode
specification.\n *^n FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n /**\n * Returns `true` if [char]
character belongs to this category.\n *^n public actual operator fun contains(char: Char): Boolean =
char.getCategoryValue() == this.value\n\n companion object {\n internal fun valueOf(category: Int):
CharCategory =\n when (category) {\n in 0..16 -> values()[category]\n in 18..30 ->
values()[category - 1]\n else -> throw IllegalArgumentException(\"Category #\$category is not defined.\")\n }\n }\n\n }\"/>\n\n /**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*^n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding or decoding error occurs.\n
*^n\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n actual constructor() : this(null)\n}\n\n\"/>\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n *^n * String builder can be used to efficiently perform
multiple string manipulation operations.\n *^n\npublic actual class StringBuilder actual constructor(content: String) :
Appendable, CharSequence {\n /**\n * Constructs an empty string builder with the specified initial [capacity].\n
 *\n * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance
of operations.\n *\n * actual constructor(capacity: Int) : this() {\n }\n\n /**\n * Constructs a string builder that
contains the same characters as the specified [content] char sequence.\n *\n * actual constructor(content:

```

```

CharSequence) : this(content.toString()) {}
 /** Constructs an empty string builder. */
 private var string: String = if (content != undefined) content else ""
 length: Int
 get() = string.asDynamic().length
 fun get(index: Int): Char =
 string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }
 fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)
 fun append(value: Char): StringBuilder {
 string += value
 return this
 }
 fun append(value: CharSequence?): StringBuilder {
 string += value.toString()
 return this
 }
 fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =
 this.appendRange(value ?: "", startIndex, endIndex)
 /** Reverses the contents of this string builder and returns this instance.
 * Surrogate pairs included in this string builder are treated as single
 * characters. Therefore, the order of the high-low surrogates is never reversed.
 * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
 * operation. For example, reversing "\uDC00\uD800" produces "\uD800\uDC00" which is a valid surrogate pair. */
 fun reverse(): StringBuilder {
 var reversed = ""
 var index = string.length - 1
 while (index >= 0) {
 val low = string[index--]
 if (low.isLowSurrogate() && index >= 0) {
 val high = string[index--]
 if (high.isHighSurrogate()) {
 reversed = reversed + low + high
 } else {
 reversed = reversed + low + high
 }
 } else {
 reversed += low
 }
 }
 string = reversed
 return this
 }
 /** Appends the string representation of the specified object [value] to this string builder and returns this instance.
 * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
 * and then that string was appended to this string builder. */
 fun append(value: Any?): StringBuilder {
 string += value.toString()
 return this
 }
 /** Appends the string representation of the specified boolean [value] to this string builder and returns this instance.
 * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
 * and then that string was appended to this string builder. */
 @SinceKotlin("1.3")
 fun append(value: Boolean): StringBuilder {
 string += value
 return this
 }
 /** Appends characters in the specified character array [value] to this string builder and returns this instance.
 * Characters are appended in order, starting at the index 0. */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun append(value: CharArray): StringBuilder {
 string += value.concatToString()
 return this
 }
 @Deprecated("Provided for binary compatibility.", level = DeprecationLevel.HIDDEN)
 fun append(value: String): StringBuilder = append(value)
 /** Appends the specified string [value] to this string builder and returns this instance.
 * If [value] is `null`, then the four characters "null" are appended. */
 @SinceKotlin("1.3")
 fun append(value: String?): StringBuilder {
 this.string += value ?: ""
 return this
 }
 /** Returns the current capacity of this string builder.
 * The capacity is the maximum length this string builder can have before an allocation occurs.
 * In Kotlin/JS implementation of String Builder the value returned from this method may not indicate the actual size of the backing storage. */
 @SinceKotlin("1.3")
 @ExperimentalStdlibApi
 @Deprecated("Obtaining String Builder capacity is not supported in JS and common code.", level = DeprecationLevel.ERROR)
 fun capacity(): Int = length
 /** Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].
 * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.
 * Otherwise, this method takes no action and simply returns.
 * In Kotlin/JS implementation of String Builder the size of the backing storage is not extended to comply the given [minimumCapacity],
 * thus calling this method has no effect on the further performance of operations. */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun ensureCapacity(minimumCapacity: Int) {}
 /** Returns the index within this string builder of the first occurrence of the specified [string].
 * Returns -1 if the specified [string] does not occur in this string builder. */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)
 /** Returns the index within

```



```

this string builder of the first occurrence of the specified [string],\n * starting at the specified [startIndex].\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String, startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string `\"\"` is considered to be at the index equal to `this.length`.\n *\n * Returns -1 if the specified [string] does not occur in this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n * starting from the specified [startIndex] toward the beginning.\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String, startIndex: Int): Int {\n if (string.isEmpty() && startIndex < 0) return -1\n return this.string.asDynamic().lastIndexOf(string, startIndex)\n }\n\n /**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Boolean): String Builder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value + string.substring(index)\n return this\n }\n\n /**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Char): String Builder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value + string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] character array, starting at [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharArray): String Builder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value.concatToString() + string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharSequence?): String Builder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value.toString() + string.substring(index)\n return this\n }\n\n /**\n * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Any?): String Builder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value.toString() + string.substring(index)\n return this\n }\n\n @Deprecated("Provided for binary compatibility.", level =

```

```

DeprecationLevel.HIDDEN)\n fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n * If [value] is `null`, then the four characters `\\null\\` are inserted.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: String?): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n val toInsert = value ?: "\\null\\`\n this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)\n return this\n }\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters `\\u0000` are appended to this string builder until its length is less than the [newLength].\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun setLength(newLength: Int) {\n if (newLength < 0) {\n throw IllegalArgumentException("Negative new length: $newLength.")\n }\n if (newLength <= length) {\n string = string.substring(0, newLength)\n } else {\n for (i in length until newLength) {\n string += "\\u0000"\n }\n }\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex: Int): String {\n AbstractList.checkPositionIndex(startIndex, length)\n return string.substring(startIndex)\n }\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex: Int, endIndex: Int): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return string.substring(startIndex, endIndex)\n }\n\n /**\n * Attempts to reduce storage used for this string builder.\n * If the backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity] property.\n * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to the length of the string builder.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun trimToSize() {\n }\n\n override fun toString(): String = string\n\n /**\n * Clears the content of this string builder making it empty and returns this instance.\n * @sample samples.text.Strings.clearStringBuilder\n * ^\n @SinceKotlin("1.3")\n public fun clear(): StringBuilder {\n string = "\\`\n return this\n }\n\n /**\n * Sets the character at the specified [index] to the specified [value].\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public operator fun set(index: Int, value: Char) {\n AbstractList.checkElementIndex(index, length)\n string = string.substring(0, index) + value + string.substring(index + 1)\n }\n\n /**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n * ^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n checkReplaceRange(startIndex, endIndex, length)\n this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n return this\n }\n\n private fun

```

```

checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n if (startIndex < 0 || startIndex > length) {\n
 throw IndexOutOfBoundsException("\nstartIndex: $startIndex, length: $length")\n }\n if (startIndex >
endIndex) {\n throw IllegalArgumentException("\nstartIndex($startIndex) > endIndex($endIndex)")\n }\n
}\n\n /**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n
*\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove
the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteAt(index: Int): StringBuilder {\n
AbstractList.checkElementIndex(index, length)\n\n string = string.substring(0, index) + string.substring(index +
1)\n return this\n }\n\n /**\n * Removes characters in the specified range from this string builder and
returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n *
@param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun
deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n checkReplaceRange(startIndex, endIndex,
length)\n\n string = string.substring(0, startIndex) + string.substring(endIndex)\n return this\n }\n\n
/**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param
destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n
* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n
 var dstIndex = destinationOffset\n for (index in startIndex until endIndex) {\n destination[dstIndex++]
= string[index]\n }\n }\n\n /**\n * Appends characters in a subarray of the specified character array
[value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at
specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param
startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the
subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value:
CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n string += value.concatToString(startIndex,
endIndex)\n return this\n }\n\n /**\n * Appends a subsequence of the specified character sequence [value]
to this string builder and returns this instance.\n *\n * @param value the character sequence from which a
subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n *
@param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharSequence, startIndex:
Int, endIndex: Int): StringBuilder {\n val stringCsq = value.toString()\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n string +=
stringCsq.substring(startIndex, endIndex)\n return this\n }\n\n /**\n * Inserts characters in a subarray of
the specified character array [value] into this string builder at the specified [index] and returns this instance.\n
*\n

```

```

* The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n
* @param index the position in this string builder to insert at.\n
* @param value the array from which characters are inserted.\n
* @param startIndex the beginning (inclusive) of the subarray to insert.\n
* @param endIndex the end (exclusive) of the subarray to insert.\n
*\n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*\n
*\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n
 AbstractList.checkPositionIndex(index, this.length)\n
 string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n
 return this\n
}\n
/**\n
 * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n
 *\n
 * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n
 *\n
 * @param index the position in this string builder to insert at.\n
 *\n
 * @param value the character sequence from which a subsequence is inserted.\n
 *\n
 * @param startIndex the beginning (inclusive) of the subsequence to insert.\n
 *\n
 * @param endIndex the end (exclusive) of the subsequence to insert.\n
 *\n
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
 */\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n
 AbstractList.checkPositionIndex(index, length)\n
 val stringCsq = value.toString()\n
 AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n
 string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)\n
 return this\n
}\n
}\n
}\n
/**\n
 * Clears the content of this string builder making it empty and returns this instance.\n
 */\n
*\n
* @sample samples.text.Strings.clearStringBuilder\n
*\n
@SinceKotlin("1.3")\n
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n
public actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n
/**\n
 * Sets the character at the specified [index] to the specified [value].\n
 *\n
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
 */\n
*\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n
public actual inline operator fun StringBuilder.set(index: Int, value: Char) = this.set(index, value)\n
/**\n
 * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n
 *\n
 * @param startIndex the beginning (inclusive) of the range to replace.\n
 *\n
 * @param endIndex the end (exclusive) of the range to replace.\n
 *\n
 * @param value the string to replace with.\n
 *\n
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n
 */\n
*\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n
public actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n
 this.setRange(startIndex, endIndex, value)\n
/**\n
 * Removes the character at the specified [index] from this string builder and returns this instance.\n
 *\n
 * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n
 *\n
 * @param index the index of `Char` to remove.\n
 *\n
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
 */\n
*\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n
public actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n
/**\n
 * Removes characters in the specified range from this string builder and returns this instance.\n
 *\n
 * @param startIndex the beginning (inclusive) of the range to remove.\n
 *\n
 * @param endIndex the end (exclusive) of the range to remove.\n
 *\n
 * @throws IndexOutOfBoundsException or

```

[IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex,
endIndex)\n\n/**\n * Copies characters from this string builder into the [destination] character array.\n *\n *
@param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by
default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex
the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is
out of the [destination] array indices range.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE",
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length) =\n this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends
characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n *
Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which
characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param
endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character
sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from
which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n *
@param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character
array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted
characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this
string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex
the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to
insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex]
is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified

```

character sequence [value] into this string builder at the specified [index] and returns this instance.\n \* \n \* The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n \* \n \* @param index the position in this string builder to insert at.\n \* @param value the character sequence from which a subsequence is inserted.\n \* @param startIndex the beginning (inclusive) of the subsequence to insert.\n \* @param endIndex the end (exclusive) of the subsequence to insert.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n

```
\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA\nDOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun\nStringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\nthis.insertRange(index, value, startIndex, endIndex)\n", "/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n * \n * \n * Returns `true` if the content of this\nstring is equal to the word `true`, ignoring case, and `false` otherwise.\n * \n * @Deprecated("Use Kotlin compiler\n1.4 to avoid deprecation warning.")\n@DeprecatedSinceKotlin(hiddenSince =\n"1.4")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toBoolean(): Boolean =\nthis.toBoolean()\n **\n * Returns `true` if this string is not `null` and its content is equal to the word `true`,\nignoring case, and `false` otherwise.\n * \n * There are also strict versions of the function available on non-nullable\nString, [toBooleanStrict] and [toBooleanStrictOrNull].\n * \n * @SinceKotlin("1.4")\npublic actual fun\nString?.toBoolean(): Boolean = this != null && this.lowercase() == "true"\n **\n * Parses the string as a signed\n[Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid\nrepresentation of a number.\n * \n * public actual fun String.toByte(): Byte = toByteOrNull() ?:\nnumberFormatError(this)\n **\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws\nNumberFormatException if the string is not a valid representation of a number.\n * @throws\nIllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n * \n * public actual fun\nString.toByte(radix: Int): Byte = toByteOrNull(radix) ?:\nnumberFormatError(this)\n **\n * Parses the string as a\n[Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid\nrepresentation of a number.\n * \n * public actual fun String.toShort(): Short = toShortOrNull() ?:\nnumberFormatError(this)\n **\n * Parses the string as a [Short] number and returns the result.\n * @throws\nNumberFormatException if the string is not a valid representation of a number.\n * @throws\nIllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n * \n * public actual fun\nString.toShort(radix: Int): Short = toShortOrNull(radix) ?:\nnumberFormatError(this)\n **\n * Parses the string as\nan [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid\nrepresentation of a number.\n * \n * public actual fun String.toInt(): Int = toIntOrNull() ?:\nnumberFormatError(this)\n **\n * Parses the string as an [Int] number and returns the result.\n * @throws\nNumberFormatException if the string is not a valid representation of a number.\n * @throws\nIllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n * \n * public actual fun\nString.toInt(radix: Int): Int = toIntOrNull(radix) ?:\nnumberFormatError(this)\n **\n * Parses the string as a [Long]\nnumber and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a\nnumber.\n * \n * public actual fun String.toLong(): Long = toLongOrNull() ?:\nnumberFormatError(this)\n **\n * Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not\na valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for\nstring to number conversion.\n * \n * public actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:\nnumberFormatError(this)\n **\n * Parses the string as a [Double] number and returns the result.\n * @throws\nNumberFormatException if the string is not a valid representation of a number.\n * \n * public actual fun\nString.toDouble(): Double = (+((this.asDynamic())).unsafeCast<Double>().also { \n if (it.isNaN() && !this.isNaN())\n || it == 0.0 && this.isBlank()})\nnumberFormatError(this)\n **\n * Parses the string as a [Float] number
```

and returns the result.  
 \* @throws NumberFormatException if the string is not a valid representation of a number.  
 \*  
 @kotlin.internal.InlineOnly  
 public actual inline fun String.toFloat(): Float = toDouble().unsafeCast<Float>()  
 \*  
 \* Parses the string as a [Double] number and returns the result  
 \* or `null` if the string is not a valid representation of a number.  
 \*  
 public actual fun String.toDoubleOrNull(): Double? = +(this.asDynamic()).unsafeCast<Double>().takeIf { !it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank() }  
 \*  
 \* Parses the string as a [Float] number and returns the result  
 \* or `null` if the string is not a valid representation of a number.  
 \*  
 @kotlin.internal.InlineOnly  
 public actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()  
 \*  
 \* Returns a string representation of this [Byte] value in the specified [radix].  
 \*  
 \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.  
 \*  
 @SinceKotlin("1.2")  
 @kotlin.internal.InlineOnly  
 public actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)  
 \*  
 \* Returns a string representation of this [Short] value in the specified [radix].  
 \*  
 \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.  
 \*  
 @SinceKotlin("1.2")  
 @kotlin.internal.InlineOnly  
 public actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)  
 \*  
 \* Returns a string representation of this [Int] value in the specified [radix].  
 \*  
 \* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.  
 \*  
 @SinceKotlin("1.2")  
 public actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))  
 private fun String.isNaN(): Boolean = when (this.lowercase()) {  
 "nan" -> true  
 "+nan" -> true  
 "-nan" -> true  
 else -> false  
 }  
 \*  
 \* Checks whether the given [radix] is valid radix for string to number and number to string conversion.  
 \*  
 @PublishedApi  
 internal actual fun checkRadix(radix: Int): Int {  
 if (radix !in 2..36) {  
 throw IllegalArgumentException("radix \$radix was not in valid range 2..36")  
 }  
 return radix  
 }  
 internal actual fun digitOf(char: Char, radix: Int): Int = when {  
 char >= '0' && char <= '9' -> char - '0'  
 char >= 'A' && char <= 'Z' -> char - 'A' + 10  
 char >= 'a' && char <= 'z' -> char - 'a' + 10  
 char < "\u0080" -> -1  
 char >= "\uFF21" && char <= "\uFF3A" -> char - "\uFF21" + 10 // full-width latin capital letter  
 char >= "\uFF41" && char <= "\uFF5A" -> char - "\uFF41" + 10 // full-width latin small letter  
 else -> char.digitToIntImpl()  
 }.let { if (it >= radix) -1 else it }  
 }  
 \*  
 \* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.  
 \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
 \*  
 package kotlin.text  
 import kotlin.js.RegExp  
 \*  
 \* Provides enumeration values to use to set regular expression options.  
 \*  
 public actual enum class RegexOptions(val value: String) {  
 /\*\* Enables case-insensitive matching. \*/  
 IGNORE\_CASE("i"),  
 /\*\* Enables multiline mode. \*/  
 MULTILINE("m")  
 }  
 \*  
 \* In multiline mode the expressions `^` and `\$` match just after or just before, respectively, a line terminator or the end of the input sequence.  
 \*  
 MULTILINE("m")  
 private fun Iterable<RegexOption>.toFlags(prepend: String): String = joinToString("\", prefix = prepend) { it.value }  
 \*  
 \* Represents the results from a single capturing group within a [MatchResult] of [Regex].  
 \*  
 \* @param value The value of captured group.  
 \*  
 public actual data class MatchGroup(actual val value: String)  
 \*  
 \* Represents a compiled regular expression.  
 \*  
 \* Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.  
 \*  
 \* For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/RegExp#Special\_characters\_meaning\_in\_regular\_expressions)  
 \*  
 \* and  
 [http://www.w3schools.com/jsref/jsref\_obj\_regexp.asp](https://www.w3schools.com/jsref/jsref\_obj\_regexp.asp).  
 \*  
 \* Note that `RegExp` objects under the hood are constructed with [the `u` flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/RegExp/unicode)  
 \* that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict,  
 \* for example, prohibiting unnecessary escape sequences.  
 \*  
 \* @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].  
 \*  
 public actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {  
 /\*\* Creates a regular expression from the specified [pattern] string and the specified single [option]. \*/  
 public actual constructor(pattern: String, option: RegexOptions) : this(pattern, setOf(option))  
 /\*\* Creates a regular expression from the specified [pattern] string

```

and the default options. */\n public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n /** The
pattern string of this regular expression. */\n public actual val pattern: String = pattern\n\n /** The set of options
that were used to create this regular expression. */\n public actual val options: Set<RegexOption> =
options.toSet()\n private val nativePattern: RegExp = RegExp(pattern, options.toFlags("\gu"))\n private var
nativeStickyPattern: RegExp? = null\n private fun initStickyPattern(): RegExp =\n nativeStickyPattern ?:
RegExp(pattern, options.toFlags("\yu")).also { nativeStickyPattern = it }\n\n private var
nativeMatchesEntirePattern: RegExp? = null\n private fun initMatchesEntirePattern(): RegExp =\n nativeMatchesEntirePattern ?: run {\n if (pattern.startsWith('^') && pattern.endsWith('$'))\n
nativePattern\n else\n return RegExp("^${pattern.trimStart('^').trimEnd('$')}$",
options.toFlags("\gu"))\n }.also { nativeMatchesEntirePattern = it }\n\n\n /** Indicates whether the regular
expression matches the entire [input]. */\n public actual infix fun matches(input: CharSequence): Boolean {\n
nativePattern.reset()\n val match = nativePattern.exec(input.toString())\n return match != null &&
match.index == 0 && nativePattern.lastIndex == input.length\n }\n\n /** Indicates whether the regular
expression can find at least one match in the specified [input]. */\n public actual fun containsMatchIn(input:
CharSequence): Boolean {\n nativePattern.reset()\n return nativePattern.test(input.toString())\n }\n\n
@SinceKotlin("1.5")\n @ExperimentalStdlibApi\n public actual fun matchesAt(input: CharSequence, index:
Int): Boolean {\n if (index < 0 || index > input.length) {\n throw IndexOutOfBoundsException("index
out of bounds: $index, input length: ${input.length}")\n }\n val pattern = initStickyPattern()\n
pattern.lastIndex = index\n return pattern.test(input.toString())\n }\n\n\n /**\n * Returns the first match of a
regular expression in the [input], beginning at the specified [startIndex].\n * \n * @param startIndex An index to
start search with, by default 0. Must be not less than zero and not greater than `input.length`\n * @return An
instance of [MatchResult] if match was found or `null` otherwise.\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or greater than the length of the [input] char sequence.\n * @sample
samples.text.Regexps.find\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun find(input:
CharSequence, startIndex: Int = 0): MatchResult? {\n if (startIndex < 0 || startIndex > input.length) {\n
throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")\n
}\n return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n }\n\n\n /**\n * Returns a
sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex].\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the
length of the [input] char sequence.\n * \n * @sample samples.text.Regexps.findAll\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n if (startIndex < 0 || startIndex > input.length)
{\n throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length:
${input.length}")\n }\n return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n
}\n\n\n /**\n * Attempts to match the entire [input] CharSequence against the pattern.\n * \n * @return An
instance of [MatchResult] if the entire input matches or `null` otherwise.\n */\n public actual fun
matchEntire(input: CharSequence): MatchResult? =\n initMatchesEntirePattern().findNext(input.toString(), 0,
nativePattern)\n\n\n @SinceKotlin("1.5")\n @ExperimentalStdlibApi\n public actual fun matchAt(input:
CharSequence, index: Int): MatchResult? {\n if (index < 0 || index > input.length) {\n throw
IndexOutOfBoundsException("index out of bounds: $index, input length: ${input.length}")\n }\n return
initStickyPattern().findNext(input.toString(), index, nativePattern)\n }\n\n\n /**\n * Replaces all occurrences
of this regular expression in the specified [input] string with specified [replacement] expression.\n * \n * The
replacement string may contain references to the captured groups during a match. Occurrences of `'$index`'\n * in
the replacement string will be substituted with the subsequences corresponding to the captured groups with the
specified index.\n * The first digit after '$' is always treated as part of group reference. Subsequent digits are
incorporated\n * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered
as potential components\n * of the group reference. Note that indexes of captured groups start from 1, and the

```



group with index 0 is the whole match.

- \* Backslash character `\` can be used to include the succeeding character as a literal in the replacement string, e.g., `\\$` or `\\\\`.
- \* `[Regex.escapeReplacement]` can be used if [replacement] have to be treated as a literal string.
- \* Note that referring named capturing groups by name is currently not supported in Kotlin/JS.
- \* However, you can still refer them by index.

`@param` input the char sequence to find matches of this regular expression in

`@param` replacement the expression to replace found matches with

`@return` the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression

`@throws` RuntimeException if [replacement] expression is malformed, or capturing group with specified ``name`` or ``index`` does not exist

```

public actual fun
replace(input: CharSequence, replacement: String): String {
 if (!replacement.contains("\\\\") &&
 !replacement.contains('$')) {
 return input.toString().nativeReplace(nativePattern, replacement)
 }
 return replace(input) { substituteGroupRefs(it, replacement) }
}

```

`replaceAll` Replaces all occurrences of this regular expression in the specified [input] string with the result of

the given function [transform] that takes [MatchResult] and returns a string to be used as a

replacement for that match.

```

public actual fun
replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
 var match = find(input)
 if (match == null) return input.toString()
 var lastStart = 0
 val length = input.length
 val sb =
 StringBuilder(length)
 do {
 val foundMatch = match!!
 sb.append(input, lastStart,
 foundMatch.range.start)
 sb.append(transform(foundMatch))
 lastStart =
 foundMatch.range.endInclusive + 1
 match = foundMatch.next()
 } while (lastStart < length && match
 != null)
 if (lastStart < length) {
 sb.append(input, lastStart, length)
 }
 return
 sb.toString()
}

```

`replaceFirst` Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.

- \* The replacement string may contain references to the captured groups during a match. Occurrences of ``$index`` in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified index.
- \* The first digit after '\$' is always treated as part of group reference. Subsequent digits are incorporated
- \* into ``index`` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components
- \* of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.

- \* Backslash character `\` can be used to include the succeeding character as a literal in the replacement string, e.g., `\\$` or `\\\\`.
- \* `[Regex.escapeReplacement]` can be used if [replacement] have to be treated as a literal string.

- \* Note that referring named capturing groups by name is not supported currently in Kotlin/JS.
- \* However, you can still refer them by index.

`@param` input the char sequence to find a match of this regular expression in

`@param` replacement the expression to replace the found match with

`@return` the result of replacing the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression

`@throws` RuntimeException if [replacement] expression is malformed, or capturing group with specified ``name`` or ``index`` does not exist

```

public actual fun replaceFirst(input: CharSequence, replacement: String): String {
 if (!replacement.contains("\\\\") && !replacement.contains('$')) {
 val nonGlobalOptions =
 options.toFlags("\"u\")")
 return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions),
 replacement)
 }
 val match = find(input) ?: return input.toString()
 return buildString {
 append(input.substring(0, match.range.first))
 append(substituteGroupRefs(match, replacement))
 append(input.substring(match.range.last + 1, input.length))
 }
}

```

`split` Splits the [input] CharSequence to a list of strings around matches of this regular expression.

- \* `@param` limit Non-negative value specifying the maximum number of substrings the string can be split to.
- \* Zero by default means no limit is set.

```

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
split(input: CharSequence, limit: Int = 0): List<String> {
 requireNonNegativeLimit(limit)
 val matches =
 findAll(input).let { if (limit == 0) it else it.take(limit - 1) }
 val result = mutableListOf<String>()
 var
 lastStart = 0
 for (match in matches) {
 result.add(input.subSequence(lastStart,
 match.range.start).toString())
 lastStart = match.range.endInclusive + 1
 }
 result.add(input.subSequence(lastStart, input.length).toString())
 return result
}

```

`splitAround` Splits the [input] CharSequence to a sequence of strings around matches of this regular expression.

- \* `@param` limit



```

groupIndex = replacement.substring(index, endIndex).toInt()\n\n if (groupIndex >=
match.groupValues.size)\n throw IndexOutOfBoundsException("Group with index $groupIndex does not
exist()")\n\n result.append(match.groupValues[groupIndex])\n index = endIndex\n } else {\n
result.append(char)\n }\n }\n return result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex:
Int, groupCount: Int): Int {\n // at least one digit after '$' is always captured\n var index = startIndex + 1\n var
groupIndex = this[startIndex] - '0'\n\n // capture the largest valid group index\n while (index < length &&
this[index] in '0'..'9') {\n val newGroupIndex = (groupIndex * 10) + (this[index] - '0')\n if (newGroupIndex
in 0 until groupCount) {\n groupIndex = newGroupIndex\n index++\n } else {\n break\n
}\n }\n return index\n}\n\n"/\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("EXTENSI
ON_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable
sequence of characters.\n * \n * String builder can be used to efficiently perform multiple string manipulation
operations.\n * \n * expect class StringBuilder : Appendable, CharSequence {\n /** Constructs an empty string
builder. *\n constructor()\n\n /** Constructs an empty string builder with the specified initial [capacity]. *\n
 constructor(capacity: Int)\n\n /** Constructs a string builder that contains the same characters as the specified
[content] char sequence. *\n constructor(content: CharSequence)\n\n /** Constructs a string builder that
contains the same characters as the specified [content] string. *\n @SinceKotlin("1.3")\n\n @ExperimentalStdlibApi\n constructor(content: String)\n\n override val length: Int\n\n override operator fun
get(index: Int): Char\n\n override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n override
fun append(value: Char): StringBuilder\n\n override fun append(value: CharSequence?): StringBuilder\n\n override
fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n /**\n * Reverses the
contents of this string builder and returns this instance.\n * \n * Surrogate pairs included in this string builder
are treated as single characters.\n * Therefore, the order of the high-low surrogates is never reversed.\n * \n *
Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-
surrogates before the operation.\n * For example, reversing "\uDC00\uD800" produces "\uD800\uDC00"
which is a valid surrogate pair.\n * \n * fun reverse(): StringBuilder\n\n /**\n * Appends the string
representation of the specified object [value] to this string builder and returns this instance.\n * \n * The overall
effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that
string was appended to this string builder.\n * \n * fun append(value: Any?): StringBuilder\n\n /**\n *
Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n
 * \n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
 * and then that string was appended to this string builder.\n * \n * @SinceKotlin("1.3")\n fun append(value:
Boolean): StringBuilder\n\n /**\n * Appends characters in the specified character array [value] to this string
builder and returns this instance.\n * \n * Characters are appended in order, starting at the index 0.\n * \n
 * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun append(value: CharArray):
StringBuilder\n\n /**\n * Appends the specified string [value] to this string builder and returns this instance.\n
 * \n * If [value] is `null`, then the four characters `null` are appended.\n * \n * @SinceKotlin("1.3")\n fun
append(value: String?): StringBuilder\n\n /**\n * Returns the current capacity of this string builder.\n * \n *
The capacity is the maximum length this string builder can have before an allocation occurs.\n * \n *
 * @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is not
supported in JS and common code.", level = DeprecationLevel.ERROR)\n fun capacity(): Int\n\n /**\n *
Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n * \n * If
the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n
 * Otherwise, this method takes no action and simply returns.\n * \n * @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun ensureCapacity(minimumCapacity: Int)\n\n /**\n *
Returns the index within this string builder of the first occurrence of the specified [string].\n * \n * Returns `-1`

```

```

if the specified [string] does not occur in this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String): Int\n\n /**\n * Returns the
index within this string builder of the first occurrence of the specified [string],\n * starting at the specified
[startIndex].\n *\n * Returns -1` if the specified [string] does not occur in this string builder starting at the
specified [startIndex].\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun indexOf(string: String, startIndex: Int): Int\n\n /**\n * Returns the index within this string builder of the last
occurrence of the specified [string].\n * The last occurrence of empty string `""` is considered to be at the index
equal to `this.length`.\n *\n * Returns -1` if the specified [string] does not occur in this string builder.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String):
Int\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n *
starting from the specified [startIndex] toward the beginning.\n *\n * Returns -1` if the specified [string] does
not occur in this string builder starting at the specified [startIndex].\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String, startIndex: Int): Int\n\n
/**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified
[index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string
by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified
[index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: Boolean): StringBuilder\n\n /**\n * Inserts the specified character [value] into this
string builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Char): StringBuilder\n\n /**\n
* Inserts characters in the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n *\n * The inserted characters go in same order as in the [value] character array, starting
at [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length
of this string builder.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun insert(index: Int, value: CharArray): StringBuilder\n\n /**\n * Inserts characters in the specified character
sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted
characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index
the position in this string builder to insert at.\n * @param value the character sequence from which characters are
inserted. If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value:
CharSequence?): StringBuilder\n\n /**\n * Inserts the string representation of the specified object [value] into
this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this
string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than
zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Any?): StringBuilder\n\n /**\n
* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n *\n * If
[value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: String?):
StringBuilder\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n *\n * If the
[newLength] is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null
characters `'\u0000'` are appended to this string builder until its length is less than the [newLength].\n *\n *
Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing
length of this string builder and then updating each character by index may slow down your program.\n *\n * @throws

```

```

IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength:
Int)\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive)
and up to the [length] (exclusive).\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than
zero or greater than the length of this string builder.\n * \n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n\n /**\n * Returns
a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex]
(exclusive).\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * \n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int,
endIndex: Int): String\n\n /**\n * Attempts to reduce storage used for this string builder.\n * \n * If the
backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be
resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the
[capacity] property.\n * \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun trimToSize()\n}\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n
*\n * @sample samples.text.Strings.clearStringBuilder\n * \n @SinceKotlin("1.3")\n\npublic expect fun
StringBuilder.clear(): StringBuilder\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n
*\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect operator fun
StringBuilder.set(index: Int, value: Char)\n\n/**\n * Replaces characters in the specified range of this string builder
with characters in the specified string [value] and returns this instance.\n * \n * @param startIndex the beginning
(inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param
value the string to replace with.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if
[startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n/**\n * Removes the
character at the specified [index] from this string builder and returns this instance.\n * \n * If the `Char` at the
specified [index] is part of a supplementary code point, this method does not remove the entire supplementary
character.\n * \n * @param index the index of `Char` to remove.\n * \n * @throws IndexOutOfBoundsException if
[index] is out of bounds of this string builder.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.deleteAt(index: Int): StringBuilder\n\n/**\n * Removes characters in the specified range from this
string builder and returns this instance.\n * \n * @param startIndex the beginning (inclusive) of the range to
remove.\n * @param endIndex the end (exclusive) of the range to remove.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
indices or when `startIndex > endIndex`.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Copies characters from this
string builder into the [destination] character array.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive)
of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this
string builder by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n *
@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the
specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder

```

and returns this instance.\n \* Characters are appended in order, starting at specified [startIndex].\n \* @param value the array from which characters are appended.\n \* @param startIndex the beginning (inclusive) of the subarray to append.\n \* @param endIndex the end (exclusive) of the subarray to append.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuilder\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n@Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)"),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n *\n * @kotlin.internal.InlineOnly\npublic inline fun
buildString(builderAction: String Builder.() -> Unit): String {\n contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n return StringBuilder().apply(builderAction).toString()\n}\n\n/**\n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using
provided [builderAction] and then converting it to [String].\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction:
String Builder.() -> Unit): String {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}\n return StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the
given String Builder.\n *\n * @public fun StringBuilder.append(vararg value: String?): String Builder {\n for (item in
value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given String Builder.\n
```

```

*^public fun StringBuilder.append(vararg value: Any?): StringBuilder {
 for (item in value)
 append(item)
 return this
}

/** Appends a line feed character ('\n') to this StringBuilder.
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun StringBuilder.appendLine():
 StringBuilder = append("\n")

/** Appends [value] to this [StringBuilder], followed by a line feed character
('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun StringBuilder.appendLine(value:
 CharSequence?): StringBuilder = append(value).appendLine()

/** Appends [value] to this [StringBuilder],
followed by a line feed character ('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun
 StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()

/** Appends [value] to
this [StringBuilder], followed by a line feed character ('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun StringBuilder.appendLine(value: Any?):
 StringBuilder = append(value).appendLine()

/** Appends [value] to this [StringBuilder], followed by a line feed
character ('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun
 StringBuilder.appendLine(value: CharArray): StringBuilder = append(value).appendLine()

/** Appends [value]
to this [StringBuilder], followed by a line feed character ('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun StringBuilder.appendLine(value: Char):
 StringBuilder = append(value).appendLine()

/** Appends [value] to this [StringBuilder], followed by a line feed
character ('\n').
*/
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun
 StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()

/* Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
package kotlin.text
import
 kotlin.js.RegExp
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(ch: Char,
 fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)
@kotlin.internal.InlineOnly
internal actual
 inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(),
 fromIndex)

/** Returns `true` if this string starts with the specified prefix.
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
 String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {
 if (!ignoreCase)
 return
 nativeStartsWith(prefix, 0)
 else
 return regionMatches(0, prefix, 0, prefix.length, ignoreCase)
}

/** Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
 String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
 if (!ignoreCase)
 return nativeStartsWith(prefix, startIndex)
 else
 return regionMatches(startIndex, prefix, 0, prefix.length,
 ignoreCase)
}

/** Returns `true` if this string ends with the specified suffix.
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
 String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
 if (!ignoreCase)
 return
 nativeEndsWith(suffix)
 else
 return regionMatches(length - suffix.length, suffix, 0, suffix.length,
 ignoreCase)
}

@Deprecated("Use Regex.matches() instead")
ReplaceWith("regex.toRegex().matches(this)")
@DeprecatedSinceKotlin(warningSince = "1.6")
public fun
 String.matches(regex: String): Boolean {
 @Suppress("DEPRECATION")
 val result = this.match(regex)
 return result != null && result.size != 0
}

/** Returns `true` if this string is empty or consists solely of
whitespace characters.
*/
@sample samples.text.Strings.stringIsBlank
public actual fun
 CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }

/** Returns `true` if
this string is equal to [other], optionally ignoring character case.
*/
@sample samples.text.Strings.stringIsBlank
public actual fun
 CharSequence.isEqual(other: CharSequence, ignoreCase: Boolean = false): Boolean {
 if (ignoreCase)
 return this.uppercaseChar().lowercaseChar() == other.uppercaseChar().lowercaseChar()
 else
 return this == other
}

/** Returns `true` if
this string is equal to [other], optionally ignoring character case.
*/
@sample samples.text.Strings.stringIsBlank
public actual fun
 String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {
 if (this == null) return other == null
 if (other == null) return false
 if (!ignoreCase) return this == other
 if (this.length != other.length) return
}

```

```

false\n\n for (index in 0 until this.length) {\n val thisChar = this[index]\n val otherChar = other[index]\n if (!thisChar.equals(otherChar, ignoreCase)) {\n return false\n }\n}\n\n return
true\n}\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean = false): Boolean =\n regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n * The title case of a character is usually the same as
its upper case with several exceptions.\n * The particular list of characters with the special title case form depends
on the underlying platform.\n * @sample samples.text.Strings.capitalize\n */\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString()
}"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic actual fun String.capitalize(): String {\n return if
(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this\n}\n\n\n/**\n * Returns a copy of this string having
its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts
with a lower case letter.\n * @sample samples.text.Strings.decapiatalize\n */\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()
}"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic actual fun String.decapiatalize(): String {\n return
if (isNotEmpty()) substring(0, 1).lowercase() + substring(1) else this\n}\n\n\n/**\n * Returns a string containing this
char sequence repeated [n] times.\n * @throws [IllegalArgumentException] when n < 0.\n * @sample
samples.text.Strings.repeat\n */\npublic actual fun CharSequence.repeat(n: Int): String {\n require(n >= 0) {\n
"Count 'n' must be non-negative, but was $n." }\n return when (n) {\n 0 -> ""\n 1 -> this.toString()\n
else -> {\n var result = ""\n if (!isEmpty()) {\n var s = this.toString()\n var count =
n\n while (true) {\n if ((count and 1) == 1) {\n result += s\n }\n
 count = count ushr 1\n if (count == 0) {\n break\n }\n s +=
s\n }\n }\n return result\n }\n }\n}\n\n\n/**\n * Returns a new string obtained by
replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue] string.\n * @sample
samples.text.Strings.replace\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n nativeReplace(Regex(Regex.escape(oldValue)), if (ignoreCase) "gui" else "gu"),
Regex.nativeEscapeReplacement(newValue))\n\n\n/**\n * Returns a new string with all occurrences of [oldChar]
replaced with [newChar].\n * @sample samples.text.Strings.replace\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n nativeReplace(Regex(Regex.escape(oldChar.toString())), if (ignoreCase) "gui" else "gu"),
newChar.toString())\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n nativeReplace(Regex(Regex.escape(oldValue)), if (ignoreCase) "ui" else "u"),
Regex.nativeEscapeReplacement(newValue))\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false):
String =\n nativeReplace(Regex(Regex.escape(oldChar.toString())), if (ignoreCase) "ui" else "u"),
newChar.toString())\n\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n/**\n * Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise. *\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed: Boolean): Int {\n if (throwOnMalformed) throw CharacterCodingException("Malformed
sequence starting at ${index - 1}")\n return -size\n}\n\n\n/**\n * Returns code point corresponding to UTF-16
surrogate pair,\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns
zero if the pair is malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the

```



```

pair is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFromSurrogate(string: String, high:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (high !in 0xD800..0xDBFF || index >=
endIndex) {\n return malformed(0, index, throwOnMalformed)\n }\n val low = string[index].code\n if
(low !in 0xDC00..0xDFFF) {\n return malformed(0, index, throwOnMalformed)\n }\n return 0x10000 +
((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of
two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the
[index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n * @throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n
*/\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {\n if (byte1 and 0x1E == 0 || index >= endIndex) {\n return malformed(0, index,
throwOnMalformed)\n }\n val byte2 = bytes[index].toInt()\n if (byte2 and 0xC0 != 0x80) {\n return
malformed(0, index, throwOnMalformed)\n }\n return (byte1 shl 6) xor byte2 xor 0xF80\n}\n\n/**\n * Returns
code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1]
and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number
of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is
false.\n * @throws CharacterCodingException if the sequence of three bytes is malformed and
[throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n return malformed(0, index,
throwOnMalformed)\n }\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0) {\n if (byte2 and
0xE0 != 0xA0) {\n // Non-shortest form\n return malformed(0, index, throwOnMalformed)\n }\n
 } else if (byte1 and 0xF == 0xD) {\n if (byte2 and 0xE0 != 0x80) {\n // Surrogate code point\n
return malformed(0, index, throwOnMalformed)\n }\n } else if (byte2 and 0xC0 != 0x80) {\n return
malformed(0, index, throwOnMalformed)\n }\n if (index + 1 == endIndex) {\n return malformed(1, index,
throwOnMalformed)\n }\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return
malformed(1, index, throwOnMalformed)\n }\n return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n * where the first byte
of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n malformed(0,
index, throwOnMalformed)\n }\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0x0) {\n if
(byte2 and 0xF0 <= 0x80) {\n // Non-shortest form\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF == 0x4) {\n if (byte2 and 0xF0 != 0x80) {\n //
Out of Unicode code points domain (larger than U+10FFFF)\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF > 0x4) {\n return malformed(0, index,
throwOnMalformed)\n } else if (byte2 and 0xC0 != 0x80) {\n return malformed(0, index,
throwOnMalformed)\n }\n if (index + 1 == endIndex) {\n return malformed(1, index,
throwOnMalformed)\n }\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return
malformed(1, index, throwOnMalformed)\n }\n if (index + 2 == endIndex) {\n return malformed(2, index,
throwOnMalformed)\n }\n val byte4 = bytes[index + 2].toInt()\n if (byte4 and 0xC0 != 0x80) {\n return
malformed(2, index, throwOnMalformed)\n }\n return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is

```

```

replaced by.\n *\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n *\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n var
byteIndex = 0\n var charIndex = startIndex\n while (charIndex < endIndex) {\n val code =
string[charIndex++].code\n when {\n code < 0x80 ->{\n bytes[byteIndex++] = code.toByte()\n
 code < 0x800 -> {\n bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n
 bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n code < 0xD800 || code >= 0xE000 ->
{\n bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n
 else -> { // Surrogate char value\n val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n if (codePoint <= 0) {\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n } else {\n bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
 bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n charIndex++\n }\n }\n }\n }\n return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n *\nprivate const val REPLACEMENT_CHAR = "\uFFFF"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n
*\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n *\ninternal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n var byteIndex = startIndex\n val stringBuilder = StringBuilder()\n while (byteIndex < endIndex) {\n val byte = bytes[byteIndex++].toInt()\n when {\n byte >= 0 ->{\n stringBuilder.append(byte.toChar())\n byte shr 5 == -2 -> {\n val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n if (code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n byteIndex += -code\n } else {\n
stringBuilder.append(code.toChar())\n byteIndex += 1\n }\n }\n byte shr 4 == -2 -
> {\n val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n if
(code <= 0) {\n stringBuilder.append(REPLACEMENT_CHAR)\n byteIndex += -code\n
 } else {\n stringBuilder.append(code.toChar())\n byteIndex += 2\n }\n
 }\n byte shr 3 == -2 -> {\n val code = codePointFrom4(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n if (code <= 0) {\n stringBuilder.append(REPLACEMENT_CHAR)\n
 byteIndex += -code\n } else {\n val high = (code - 0x10000) shr 10 or 0xD800\n
 val low = (code and 0x3FF) or 0xDC00\n stringBuilder.append(high.toChar())\n
stringBuilder.append(low.toChar())\n byteIndex += 3\n }\n }\n else -> {\n
 malformed(0, byteIndex, throwOnMalformed)\n stringBuilder.append(REPLACEMENT_CHAR)\n
 }\n }\n }\n return stringBuilder.toString()\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be

```

```

found in the license/LICENSE.txt file.\n *\n\npackage kotlin\n\n/**\n * Returns the detailed description of this
throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see
[Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions
that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of
each throwable in the [Throwable.cause] chain.\n *\n@SinceKotlin("1.4")\n\npublic actual fun
Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed
description][Throwable.stackTraceToString] of this throwable to console error output.\n
*\n@SinceKotlin("1.4")\n\npublic actual fun Throwable.printStackTrace() {\n
console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that
were\n * suppressed in order to deliver this exception.\n *\n@SinceKotlin("1.4")\n\npublic actual fun
Throwable.addSuppressed(exception: Throwable) {\n if (this !== exception) {\n val suppressed =
this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable?>>()\n if (suppressed == null) {\n
this.asDynamic()._suppressed = mutableListOf(exception)\n } else {\n suppressed.add(exception)\n
}\n }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n
*\n@SinceKotlin("1.4")\n\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n get() {\n
return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n }\n\nprivate class
ExceptionTraceBuilder {\n private val target = StringBuilder()\n private val visited = arrayOf<Throwable>()\n
private var topStack: String = ""\n private var topStackStart: Int = 0\n fun buildFor(exception: Throwable):
String {\n exception.dumpFullTrace("", "")\n return target.toString()\n }\n private fun
hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n private fun
Throwable.dumpFullTrace(indent: String, qualifier: String) {\n this.dumpSelfTrace(indent, qualifier) ||
return\n var cause = this.cause\n while (cause != null) {\n cause.dumpSelfTrace(indent, "Caused
by: ") || return\n cause = cause.cause\n }\n }\n private fun Throwable.dumpSelfTrace(indent:
String, qualifier: String): Boolean {\n target.append(indent).append(qualifier)\n val shortInfo =
this.toString()\n if (hasSeen(this)) {\n target.append("[CIRCULAR REFERENCE, SEE ABOVE:
\\").append(shortInfo).append("\\]\n")\n return false\n }\n visited.asDynamic().push(this)\n var
stack = this.asDynamic().stack as String?\n if (stack != null) {\n val stackStart =
stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n if (stackStart == 0)\n target.append(shortInfo).append("\\\n")\n if (topStack.isEmpty()) {\n topStack = stack\n
topStackStart = stackStart\n } else {\n stack = dropCommonFrames(stack, stackStart)\n }\n
 if (indent.isNotEmpty()) {\n // indent stack, but avoid indenting exception message lines\n val
messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\\n' }\n stack.lineSequence().forEachIndexed { index: Int, line: String ->\n if (index >= messageLines)\n target.append(indent)\n target.append(line).append("\\\n")\n }\n } else {\n target.append(stack).append("\\\n")\n }\n } else {\n target.append(shortInfo).append("\\\n")\n }\n }\n val suppressed = suppressedExceptions\n if (suppressed.isNotEmpty()) {\n val
suppressedIndent = indent + " "\n for (s in suppressed) {\n s.dumpFullTrace(suppressedIndent,
"Suppressed: ")\n }\n }\n return true\n }\n private fun dropCommonFrames(stack: String,
stackStart: Int): String {\n var commonFrames: Int = 0\n var lastBreak: Int = 0\n var preLastBreak: Int
= 0\n for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n val c =
stack[stack.lastIndex - pos]\n if (c != topStack[topStack.lastIndex - pos]) break\n if (c == '\\n') {\n
 commonFrames += 1\n preLastBreak = lastBreak\n lastBreak = pos\n }\n }\n
if (commonFrames <= 1) return stack\n while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)]
== '\\n')\n preLastBreak -= 1\n // leave 1 common frame to ease matching with the top exception stack\n
return stack.dropLast(preLastBreak) + "... and ${commonFrames - 1} more common stack frames skipped"\n
}\n}\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.\n\ninternal actual inline val

```

```

durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double,
decimals: Int): String {\n val rounded = if (decimals == 0) {\n value\n } else {\n val pow =
10.0.pow(decimals)\n JsMath.round(abs(value) * pow) / pow * sign(value)\n }\n return if (abs(rounded) <
1e21) {\n // toFixed switches to scientific format after 1e21\n
rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n } else {\n // toPrecision outputs the specified
number of digits, but only for positive numbers\n val positive = abs(rounded)\n val positiveString =
positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n if (rounded < 0) \"-
$positiveString\" else positiveString\n }\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals:
Int): String {\n return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to
decimals)).unsafeCast<String>()\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic actual enum class
DurationUnit(internal val scale: Double) {\n /**\n * Time unit representing one nanosecond, which is 1/1000 of
a microsecond.\n */\n NANOSECONDS(1e0),\n /**\n * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n */\n MICROSECONDS(1e3),\n /**\n * Time unit representing one millisecond,
which is 1/1000 of a second.\n */\n MILLISECONDS(1e6),\n /**\n * Time unit representing one second.\n
*/\n SECONDS(1e9),\n /**\n * Time unit representing one minute.\n */\n MINUTES(60e9),\n /**\n
 * Time unit representing one hour.\n */\n HOURS(3600e9),\n /**\n * Time unit representing one day,
which is always equal to 24 hours.\n */\n DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n else -> value\n }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun
convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n sourceCompareTarget < 0
-> value / (targetUnit.scale / sourceUnit.scale).toLong()\n else -> value\n }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit,
targetUnit: DurationUnit): Long {\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n
return when {\n sourceCompareTarget > 0 -> {\n val scale = (sourceUnit.scale /
targetUnit.scale).toLong()\n val result = value * scale\n when {\n result / scale == value ->
result\n value > 0 -> Long.MAX_VALUE\n else -> Long.MIN_VALUE\n }\n }\n
sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n else -> value\n }\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal actual object
MonotonicTimeSource : TimeSource {\n private val actualSource: TimeSource = run {\n val isNode:
Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n if
(isNode)\n HrTimeSource(js(\"process\").unsafeCast<Process>())\n else\n
js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n ?:
DateNowTimeSource\n }\n override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal
external interface Process {\n fun hrtime(time: Array<Double> = definedExternally):
Array<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class HrTimeSource(val process:
Process) : TimeSource {\n override fun markNow(): TimeMark = object : TimeMark() {\n val startedAt =
process.hrtime()\n override fun elapsedNow(): Duration =\n process.hrtime(startedAt).let { (seconds,
nanos) -> seconds.toDuration(DurationUnit.SECONDS) + nanos.toDuration(DurationUnit.NANOSECONDS) }\n }\n}

```

```

}\n\n override fun toString(): String =
`\"TimeSource(process.hrtime())\"}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class
PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n override fun read(): Double = performance.now()\n override fun toString():
String = `\"TimeSource(self.performance.now())\"}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal
object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n override
fun read(): Double = kotlin.js.Date.now()\n override fun toString(): String = `\"TimeSource(Date.now())\"}\n\n\",/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlinx.dom\n\nimport org.w3c.dom.*\nimport kotlin.contracts.*\n\n/**\n * Creates a new element with the
specified [name].\n */\n * The element is initialized with the specified [init] function.\n */\n\n@SinceKotlin(\"1.4\")\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element {\n
 contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n return
createElement(name).apply(init)\n}\n\n/**\n * Appends a newly created element with the specified [name] to this
element.\n */\n * The element is initialized with the specified [init] function.\n */\n\n@SinceKotlin(\"1.4\")\npublic fun
Element.appendChild(name: String, init: Element.() -> Unit): Element {\n contract { callsInPlace(init,
InvocationKind.EXACTLY_ONCE) }\n return ownerDocument!!.createElement(name, init).also {
appendChild(it) }\n}\n\n\",/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/**\n * Returns true if the element
has the given CSS class style in its 'class' attribute\n */\n\n@SinceKotlin(\"1.4\")\nfun Element.hasClass(cssClass:
String): Boolean = className.matches(`\"\\\"(^.*\\$)cssClass(\\$|s+.*)`\"\".toRegex())\n\n/**\n * Adds CSS class
to element. Has no effect if all specified classes are already in class attribute of the element\n */\n * @return true if at
least one class has been added\n */\n\n@SinceKotlin(\"1.4\")\nfun Element.addClass(vararg cssClasses: String):
Boolean {\n val missingClasses = cssClasses.filterNot { hasClass(it) }\n if (missingClasses.isNotEmpty()) {\n
 val presentClasses = className.trim()\n className = buildString {\n append(presentClasses)\n if
(!presentClasses.isEmpty()) {\n append(" ")\n }\n missingClasses.joinTo(this, " ")
}\n return true\n }\n return false\n}\n\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all
specified classes are missing in class attribute of the element\n */\n * @return true if at least one class has been
removed\n */\n\n@SinceKotlin(\"1.4\")\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n if
(cssClasses.any { hasClass(it) }) {\n val toBeRemoved = cssClasses.toSet()\n className =
className.trim().split(`\"\\\"s+`\".toRegex()).filter { it !in toBeRemoved }.joinToString(" ")\n return true\n
}\n return false\n}\n\n\",/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage
kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression [Regex] with the specified single [option].\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a
regular expression [Regex] with the specified set of [options].\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n\n\",/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n\n@SinceKotlin(\"1.4\")\npublic val Node.isText: Boolean\n get() =.nodeType ==
Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating
whether this node is an [Element].\n */\n\n@SinceKotlin(\"1.4\")\npublic val Node.isElement: Boolean\n get() =

```

```

nodeType == Node.ELEMENT_NODE\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/** Removes all the children
from this node. *\n@SinceKotlin("1.4")\npublic fun Node.clear() {\n while (hasChildNodes()) {\n
removeChild(firstChild!)\n }\n}\n\n/** Creates text node and append it to the element.\n *\n * @return this
element\n *\n@SinceKotlin("1.4")\nfun Element.appendText(text: String): Element {\n
appendChild(ownerDocument!!.createTextNode(text))\n return this\n}\n", "/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\n@Deprecated("Use
UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))\ntypealias
UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.",
ReplaceWith("`as`"))\nvar HTMLLinkElement.as_\n get() = `as`\n set(value) {\n `as` = value\n
}\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_\n get() = `is`\n
set(value) {\n `is` = value\n }", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface WebGLContextAttributes {\n var
alpha: Boolean? /* = true *\n get() = definedExternally\n set(value) = definedExternally\n var depth:
Boolean? /* = true *\n get() = definedExternally\n set(value) = definedExternally\n var stencil: Boolean?
/* = false *\n get() = definedExternally\n set(value) = definedExternally\n var antialias: Boolean? /* =
true *\n get() = definedExternally\n set(value) = definedExternally\n var premultipliedAlpha: Boolean?
/* = true *\n get() = definedExternally\n set(value) = definedExternally\n var preserveDrawingBuffer:
Boolean? /* = false *\n get() = definedExternally\n set(value) = definedExternally\n var
preferLowPowerToHighPerformance: Boolean? /* = false *\n get() = definedExternally\n set(value) =
definedExternally\n var failIfMajorPerformanceCaveat: Boolean? /* = false *\n get() = definedExternally\n
 set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha:
Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha:
Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false,
failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n val o = js("{}")\n
o["alpha"] = alpha\n o["depth"] = depth\n o["stencil"] = stencil\n o["antialias"] = antialias\n
o["premultipliedAlpha"] = premultipliedAlpha\n o["preserveDrawingBuffer"] = preserveDrawingBuffer\n
o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance\n
o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n return o\n}\n\npublic external abstract
class WebGLObject\n\n/** Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n *\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/** Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n *\npublic
external abstract class WebGLFramebuffer : WebGLObject\n\n/** Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n *\npublic external
abstract class WebGLProgram : WebGLObject\n\n/** Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n *\npublic
external abstract class WebGLRenderbuffer : WebGLObject\n\n/** Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n *\npublic external
abstract class WebGLShader : WebGLObject\n\n/** Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n *\npublic external
abstract class WebGLTexture : WebGLObject\n\n/** Exposes the JavaScript

```

[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin  
`*\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript`

[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin  
`*\npublic external abstract class WebGLActiveInfo {\n open val size: Int\n open val type: Int\n open val name: String\n}\n\n/**\n * Exposes the JavaScript`

[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin  
`*\npublic external abstract class WebGLShaderPrecisionFormat {\n open val rangeMin: Int\n open val rangeMax: Int\n open val precision:`

`Int\n}\n\n@Suppress(\\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\\")\npublic external interface WebGLRenderingContextBase {\n val canvas: HTMLCanvasElement\n val drawingBufferWidth: Int\n val drawingBufferHeight: Int\n fun getContextAttributes(): WebGLContextAttributes?\n fun isContextLost(): Boolean\n fun getSupportedExtensions(): Array<String>?\n fun getExtension(name: String): dynamic\n fun activeTexture(texture: Int)\n fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n fun bindBuffer(target: Int, buffer: WebGLBuffer?)\n fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n fun bindTexture(target: Int, texture: WebGLTexture?)\n fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun blendEquation(mode: Int)\n fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n fun blendFunc(sfactor: Int, dfactor: Int)\n fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?, usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname:`

```

Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun
getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun
getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n
fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location:
WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String):
WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun
getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer:
WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer:
WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n
fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program:
WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun
renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float,
invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?,
source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref:
Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun
stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun
vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun

```



```

vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun
vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun
vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n
fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun
viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val DEPTH_BUFFER_BIT: Int\n
val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES:
Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val
TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val
SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val
ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n
val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n
val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val
BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT:
Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n
val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val
ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val
ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n
val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val
ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n
val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val
CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK:
Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n
val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val
SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n
val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val
OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val
ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val
CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val
DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val
STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val
STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF:
Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val
STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val
STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n
val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n
val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n
val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val
POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val
TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val
SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val
COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val
NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE:
Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val
RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val

```

UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS: Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS: Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n val ACTIVE\_ATTRIBUTES: Int\n val  
 SHADING\_LANGUAGE\_VERSION: Int\n val CURRENT\_PROGRAM: Int\n val NEVER: Int\n val  
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n  
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n  
 val DECR: Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val  
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:  
 Int\n val NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val  
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val  
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val  
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val  
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val  
 TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val  
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val  
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val  
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE\_TEXTURE: Int\n val REPEAT: Int\n  
 val CLAMP\_TO\_EDGE: Int\n val MIRRORED\_REPEAT: Int\n val FLOAT\_VEC2: Int\n val  
 FLOAT\_VEC3: Int\n val FLOAT\_VEC4: Int\n val INT\_VEC2: Int\n val INT\_VEC3: Int\n val  
 INT\_VEC4: Int\n val BOOL: Int\n val BOOL\_VEC2: Int\n val BOOL\_VEC3: Int\n val  
 BOOL\_VEC4: Int\n val FLOAT\_MAT2: Int\n val FLOAT\_MAT3: Int\n val FLOAT\_MAT4: Int\n  
 val SAMPLER\_2D: Int\n val SAMPLER\_CUBE: Int\n val VERTEX\_ATTRIB\_ARRAY\_ENABLED:  
 Int\n val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING:  
 Int\n val IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n val  
 IMPLEMENTATION\_COLOR\_READ\_FORMAT: Int\n val COMPILE\_STATUS: Int\n val  
 LOW\_FLOAT: Int\n val MEDIUM\_FLOAT: Int\n val HIGH\_FLOAT: Int\n val LOW\_INT: Int\n  
 val MEDIUM\_INT: Int\n val HIGH\_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:  
 Int\n val RGBA4: Int\n val RGB5\_A1: Int\n val RGB565: Int\n val DEPTH\_COMPONENT16:  
 Int\n val STENCIL\_INDEX: Int\n val STENCIL\_INDEX8: Int\n val DEPTH\_STENCIL: Int\n val  
 RENDERBUFFER\_WIDTH: Int\n val RENDERBUFFER\_HEIGHT: Int\n val  
 RENDERBUFFER\_INTERNAL\_FORMAT: Int\n val RENDERBUFFER\_RED\_SIZE: Int\n val  
 RENDERBUFFER\_GREEN\_SIZE: Int\n val RENDERBUFFER\_BLUE\_SIZE: Int\n val  
 RENDERBUFFER\_ALPHA\_SIZE: Int\n val RENDERBUFFER\_DEPTH\_SIZE: Int\n val

```

RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0:
Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val
DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val
MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val
UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n**\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
companion object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val
COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val
LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN:
Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR:
Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val
ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n
val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val
BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT:
Int\n val FUNC_REVERSE_SUBTRACT: Int\n val BLEND_DST_RGB: Int\n val
BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val
CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA:
Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val
ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING:
Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val
STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val
BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK:
Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER:
Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val
POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val
SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val
INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW:
Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val
ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n
val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val
DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val
STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS:
Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK:
Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val
STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n

```

val PACK\_ALIGNMENT: Int\n      val MAX\_TEXTURE\_SIZE: Int\n      val MAX\_VIEWPORT\_DIMS: Int\n  
 val SUBPIXEL\_BITS: Int\n      val RED\_BITS: Int\n      val GREEN\_BITS: Int\n      val BLUE\_BITS: Int\n  
 val ALPHA\_BITS: Int\n      val DEPTH\_BITS: Int\n      val STENCIL\_BITS: Int\n      val  
 POLYGON\_OFFSET\_UNITS: Int\n      val POLYGON\_OFFSET\_FACTOR: Int\n      val  
 TEXTURE\_BINDING\_2D: Int\n      val SAMPLE\_BUFFERS: Int\n      val SAMPLES: Int\n      val  
 SAMPLE\_COVERAGE\_VALUE: Int\n      val SAMPLE\_COVERAGE\_INVERT: Int\n      val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n      val DONT\_CARE: Int\n      val FASTEST: Int\n      val  
 NICEST: Int\n      val GENERATE\_MIPMAP\_HINT: Int\n      val BYTE: Int\n      val UNSIGNED\_BYTE:  
 Int\n      val SHORT: Int\n      val UNSIGNED\_SHORT: Int\n      val INT: Int\n      val UNSIGNED\_INT: Int\n  
 val FLOAT: Int\n      val DEPTH\_COMPONENT: Int\n      val ALPHA: Int\n      val RGB: Int\n      val  
 RGBA: Int\n      val LUMINANCE: Int\n      val LUMINANCE\_ALPHA: Int\n      val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n      val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n      val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n      val FRAGMENT\_SHADER: Int\n      val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n      val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n      val  
 MAX\_VARYING\_VECTORS: Int\n      val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n      val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n      val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n      val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n      val SHADER\_TYPE: Int\n      val DELETE\_STATUS:  
 Int\n      val LINK\_STATUS: Int\n      val VALIDATE\_STATUS: Int\n      val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n      val ACTIVE\_ATTRIBUTES: Int\n      val  
 SHADING\_LANGUAGE\_VERSION: Int\n      val CURRENT\_PROGRAM: Int\n      val NEVER: Int\n      val  
 LESS: Int\n      val EQUAL: Int\n      val LEQUAL: Int\n      val GREATER: Int\n      val NOTEQUAL: Int\n  
 val GEQUAL: Int\n      val ALWAYS: Int\n      val KEEP: Int\n      val REPLACE: Int\n      val INCR: Int\n  
 val DECR: Int\n      val INVERT: Int\n      val INCR\_WRAP: Int\n      val DECR\_WRAP: Int\n      val  
 VENDOR: Int\n      val RENDERER: Int\n      val VERSION: Int\n      val NEAREST: Int\n      val LINEAR:  
 Int\n      val NEAREST\_MIPMAP\_NEAREST: Int\n      val LINEAR\_MIPMAP\_NEAREST: Int\n      val  
 NEAREST\_MIPMAP\_LINEAR: Int\n      val LINEAR\_MIPMAP\_LINEAR: Int\n      val  
 TEXTURE\_MAG\_FILTER: Int\n      val TEXTURE\_MIN\_FILTER: Int\n      val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n      val TEXTURE\_2D: Int\n      val TEXTURE: Int\n      val  
 TEXTURE\_CUBE\_MAP: Int\n      val TEXTURE\_BINDING\_CUBE\_MAP: Int\n      val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n      val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n      val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n      val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n      val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n      val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n      val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n      val TEXTURE0: Int\n      val TEXTURE1: Int\n      val  
 TEXTURE2: Int\n      val TEXTURE3: Int\n      val TEXTURE4: Int\n      val TEXTURE5: Int\n      val  
 TEXTURE6: Int\n      val TEXTURE7: Int\n      val TEXTURE8: Int\n      val TEXTURE9: Int\n      val  
 TEXTURE10: Int\n      val TEXTURE11: Int\n      val TEXTURE12: Int\n      val TEXTURE13: Int\n      val  
 TEXTURE14: Int\n      val TEXTURE15: Int\n      val TEXTURE16: Int\n      val TEXTURE17: Int\n      val  
 TEXTURE18: Int\n      val TEXTURE19: Int\n      val TEXTURE20: Int\n      val TEXTURE21: Int\n      val  
 TEXTURE22: Int\n      val TEXTURE23: Int\n      val TEXTURE24: Int\n      val TEXTURE25: Int\n      val  
 TEXTURE26: Int\n      val TEXTURE27: Int\n      val TEXTURE28: Int\n      val TEXTURE29: Int\n      val  
 TEXTURE30: Int\n      val TEXTURE31: Int\n      val ACTIVE\_TEXTURE: Int\n      val REPEAT: Int\n  
 val CLAMP\_TO\_EDGE: Int\n      val MIRRORED\_REPEAT: Int\n      val FLOAT\_VEC2: Int\n      val  
 FLOAT\_VEC3: Int\n      val FLOAT\_VEC4: Int\n      val INT\_VEC2: Int\n      val INT\_VEC3: Int\n      val  
 INT\_VEC4: Int\n      val BOOL: Int\n      val BOOL\_VEC2: Int\n      val BOOL\_VEC3: Int\n      val  
 BOOL\_VEC4: Int\n      val FLOAT\_MAT2: Int\n      val FLOAT\_MAT3: Int\n      val FLOAT\_MAT4: Int\n  
 val SAMPLER\_2D: Int\n      val SAMPLER\_CUBE: Int\n      val VERTEX\_ATTRIB\_ARRAY\_ENABLED:  
 Int\n      val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n      val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n      val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n

```

val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val
IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val
LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n
val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:
Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16:
Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val
RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val
RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val
RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val
RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val
RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0:
Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val
DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val
MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val
UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n open val statusMessage: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WebGLContextEventInit : EventInit {\n var statusMessage: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n val o = js(\"({})\")\n o[\"statusMessage\"] =
statusMessage\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n
*\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n open val byteLength: Int\n fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n companion object {\n fun isView(value: Any?): Boolean\n }\n}\n\n/**\n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n
*\npublic
external interface ArrayBufferView : BufferDataSource {\n val buffer: ArrayBuffer\n val byteOffset: Int\n val
byteLength: Int\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n
*\npublic external open class
Int8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int8Array)\n constructor(array:
Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Int8Array, offset: Int = definedExternally)\n fun set(array:

```

```

Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n *\npublic external open class
Uint8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Uint8Array, offset: Int = definedExternally)\n fun set(array:
Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n *\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n constructor(length: Int)\n constructor(array:
Uint8ClampedArray)\n constructor(array: Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n
override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Uint8ClampedArray, offset: Int =
definedExternally)\n fun set(array: Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end:
Int): Uint8ClampedArray\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n
}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n *\npublic external open class
Int16Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Int16Array, offset: Int = definedExternally)\n fun set(array:
Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n *\npublic external open
class Uint16Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint16Array)\n
constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Uint16Array, offset: Int = definedExternally)\n fun set(array:
Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int):

```

```

Short = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n *\npublic external open class
Int32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Int32Array, offset: Int = definedExternally)\n fun set(array:
Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int32Array\n\n companion object
{\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\npublic external open
class Uint32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Uint32Array, offset: Int = definedExternally)\n fun set(array:
Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint32Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int):
Int = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n *\npublic external open
class Float32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Float32Array, offset: Int = definedExternally)\n fun
set(array: Array<Float>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Float32Array\n\n
companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int,
value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n *\npublic external open
class Float64Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Float64Array)\n
constructor(array: Array<Double>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Float64Array, offset: Int = definedExternally)\n fun
set(array: Array<Double>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Float64Array\n\n
companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int,

```

```

value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val
byteLength: Int\n fun getInt8(byteOffset: Int): Byte\n fun getUint8(byteOffset: Int): Byte\n fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n fun getUint16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n fun
getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n fun getFloat64(byteOffset: Int,
littleEndian: Boolean = definedExternally): Double\n fun setInt8(byteOffset: Int, value: Byte)\n fun
setUint8(byteOffset: Int, value: Byte)\n fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n fun setUint32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n fun setFloat32(byteOffset: Int, value: Float, littleEndian:
Boolean = definedExternally)\n fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n var
clipboardData: DataTransfer? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n val o = js("{}")\n o["clipboardData"] = clipboardData\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n open
val clipboardData: DataTransfer?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n */\npublic external abstract class Clipboard : EventTarget {\n fun read(): Promise<DataTransfer>\n fun
readText(): Promise<String>\n fun write(data: DataTransfer): Promise<Unit>\n fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n var allowWithoutGesture:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val
o = js("{}")\n o["allowWithoutGesture"] = allowWithoutGesture\n return o\n}", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList :
ItemArrayLike<String> {\n open var mediaText: String\n fun appendMedium(medium: String)\n fun
deleteMedium(medium: String)\n override fun item(index: Int):
String?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int):

```



String? = asDynamic()[index]\n\n/\*\*\n \* Exposes the JavaScript

[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n \*/\npublic external abstract class StyleSheet {\n open val type: String\n open val href: String?\n open val ownerNode: UnionElementOrProcessingInstruction?\n open val parentStyleSheet: StyleSheet?\n open val title: String?\n open val media: MediaList\n open var disabled: Boolean\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n \*/\npublic external abstract class CSSStyleSheet : StyleSheet {\n open val ownerRule: CSSRule?\n open val cssRules: CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n}\n\n/\*\*\n \* Exposes the JavaScript

[StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n \*/\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n override fun item(index: Int): StyleSheet?\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\n\n/\*\*\n \* Exposes the JavaScript

[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n \*/\npublic external interface LinkStyle {\n val sheet: StyleSheet?\n get() = definedExternally\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n \*/\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n override fun item(index: Int): CSSRule?\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\n\n/\*\*\n \* Exposes the JavaScript

[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n \*/\npublic external abstract class CSSRule {\n open val type: Short\n open var cssText: String\n open val parentRule: CSSRule?\n open val parentStyleSheet: CSSStyleSheet?\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n \*/\npublic external abstract class CSSStyleRule : CSSRule {\n open var selectorText: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n open val href: String\n open val media: MediaList\n open val styleSheet: CSSStyleSheet\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n \*/\npublic external abstract class CSSGroupingRule : CSSRule {\n open val cssRules: CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n \*/\npublic external abstract class CSSMediaRule : CSSGroupingRule {\n open val media: MediaList\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n \*/\npublic external

```

abstract class CSSPageRule : CSSGroupingRule {\n open var selectorText: String\n open val style:
CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE:
Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n
 val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n
 }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n open val name: String\n open val style:
CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE:
Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n
 val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n
 }\n}\n\n/**\n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\n\npublic
external abstract class CSSNamespaceRule : CSSRule {\n open val namespaceURI: String\n open val prefix:
String\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val
IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val
PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n *
Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\n\npublic
external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n open var cssText: String\n open val
parentRule: CSSRule?\n open var cssFloat: String\n open var alignContent: String\n open var alignItems:
String\n open var alignSelf: String\n open var animation: String\n open var animationDelay: String\n open
var animationDirection: String\n open var animationDuration: String\n open var animationFillMode: String\n
open var animationIterationCount: String\n open var animationName: String\n open var animationPlayState:
String\n open var animationTimingFunction: String\n open var backfaceVisibility: String\n open var
background: String\n open var backgroundAttachment: String\n open var backgroundClip: String\n open var
backgroundColor: String\n open var backgroundImage: String\n open var backgroundOrigin: String\n open var
backgroundPosition: String\n open var backgroundRepeat: String\n open var backgroundSize: String\n open
var border: String\n open var borderBottom: String\n open var borderBottomColor: String\n open var
borderBottomLeftRadius: String\n open var borderBottomRightRadius: String\n open var borderBottomStyle:
String\n open var borderBottomWidth: String\n open var borderCollapse: String\n open var borderColor:
String\n open var borderImage: String\n open var borderImageOutset: String\n open var borderImageRepeat:
String\n open var borderImageSlice: String\n open var borderImageSource: String\n open var
borderImageWidth: String\n open var borderLeft: String\n open var borderLeftColor: String\n open var
borderLeftStyle: String\n open var borderLeftWidth: String\n open var borderRadius: String\n open var
borderRight: String\n open var borderRightColor: String\n open var borderRightStyle: String\n open var
borderRightWidth: String\n open var borderSpacing: String\n open var borderStyle: String\n open var
borderTop: String\n open var borderTopColor: String\n open var borderTopLeftRadius: String\n open var
borderTopRightRadius: String\n open var borderTopStyle: String\n open var borderTopWidth: String\n open
var borderWidth: String\n open var bottom: String\n open var boxDecorationBreak: String\n open var
boxShadow: String\n open var boxSizing: String\n open var breakAfter: String\n open var breakBefore:
String\n open var breakInside: String\n open var captionSide: String\n open var clear: String\n open var clip:
String\n open var color: String\n open var columnCount: String\n open var columnFill: String\n open var
columnGap: String\n open var columnRule: String\n open var columnRuleColor: String\n open var
columnRuleStyle: String\n open var columnRuleWidth: String\n open var columnSpan: String\n open var
columnWidth: String\n open var columns: String\n open var content: String\n open var counterIncrement:
String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var
display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var
flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n
open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily:
String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var

```

```

fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var
fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant:
String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var
fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n
open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n
open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var
imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var
justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n
open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var
listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom:
String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open
var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n
open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n
open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight:
String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var
navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open
var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n
open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n
open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var
overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding:
String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n
open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open
var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var
phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var
rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var
tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n
open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace:
String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var
wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n
open var _dashed_attribute: String\n open var _camel_cased_attribute: String\n open var
_webkit_cased_attribute: String\n fun getProperty(property: String): String\n fun
getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String =
definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun setPropertyPriority(property:
String, priority: String)\n fun removeProperty(property: String): String\n override fun item(index: Int):
String\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface
ElementCSSInlineStyle {\n val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class CSS {\n

```

```

companion object {
 fun escape(ident: String): String {
 return ident.replace("\\", "\\\\")
 }
}

public external interface
UnionElementOrProcessingInstruction, /* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file. NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! See
github.com/kotlin/dukat for details package org.w3c.dom.encryptedmedia import kotlin.js import
org.khronos.webgl import org.w3c.dom import org.w3c.dom.events */ Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin

public external interface MediaKeySystemConfiguration {
 var label: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var initDataTypes: Array<String>? /* = arrayOf() */
 get() = definedExternally
 set(value) = definedExternally
 var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
 get() = definedExternally
 set(value) =
definedExternally
 var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
 get() = definedExternally
 set(value) = definedExternally
 var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
 get() = definedExternally
 set(value) = definedExternally
 var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */
 get() = definedExternally
 set(value) = definedExternally
 var sessionTypes: Array<String>?
 get() = definedExternally
 set(value) =
definedExternally
}

@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaKeySystemConfiguration(label:
String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{
 val o = js("{}")
 o["label"] = label
 o["initDataTypes"] = initDataTypes
 o["audioCapabilities"] = audioCapabilities
 o["videoCapabilities"] = videoCapabilities
 o["distinctiveIdentifier"] = distinctiveIdentifier
 o["persistentState"] = persistentState
 o["sessionTypes"]
= sessionTypes
 return o
}

public external interface MediaKeySystemMediaCapability {
 var
contentType: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var
robustness: String? /* = "" */
 get() = definedExternally
 set(value) =
definedExternally
}

@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun
MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""):
MediaKeySystemMediaCapability {
 val o = js("{}")
 o["contentType"] = contentType
 o["robustness"] = robustness
 return o
}

/* Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin

public external abstract class MediaKeySystemAccess {
 open val keySystem: String
 fun
getConfiguration(): MediaKeySystemConfiguration
 fun createMediaKeys(): Promise<MediaKeys>
}

/* Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin

public external abstract class MediaKeys {
 fun createSession(sessionType: MediaKeySessionType =
definedExternally): MediaKeySession
 fun setServerCertificate(serverCertificate: dynamic):
Promise<Boolean>
}

/* Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin

public external abstract class MediaKeySession : EventTarget {
 open val sessionId: String
 open val expiration:
Double
 open val closed: Promise<Unit>
 open val keyStatuses: MediaKeyStatusMap
 open var
onkeystatuschange: ((Event) -> dynamic)?
 open var onmessage: ((MessageEvent) -> dynamic)?
 fun
generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
 fun load(sessionId: String):
Promise<Boolean>
 fun update(response: dynamic): Promise<Unit>
 fun close(): Promise<Unit>
}

```

```

remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n */\npublic
external abstract class MediaKeyStatusMap {\n open val size: Int\n fun has(keyId: dynamic): Boolean\n fun
get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n
*/\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :
Event {\n open val messageType: MediaKeyMessageType\n open val message: ArrayBuffer\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n var
messageType: MediaKeyMessageType?\n var message:
ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n val o =
js(\"({})\")\n o[\"messageType\"] = messageType\n o[\"message\"] = message\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class
MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n
open val initDataType: String\n open val initData: ArrayBuffer?\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n var initDataType: String? /* =
\"\" */\n get() = definedExternally\n set(value) = definedExternally\n var initData: ArrayBuffer? /* = null
*/\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n val o = js(\"({})\")\n
o[\"initDataType\"] = initData\n o[\"initData\"] = initData\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"]
= cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeysRequirement {\n companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
\"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
\"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-
allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeySessionType {\n companion object\n}\n\npublic inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
\"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-
license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeyStatus {\n companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE:
MediaKeyStatus get() = \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
\"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =

```

```

\released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaKeyMessageType {\n companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() =
\"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()),\"/>\n\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes
the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n\n *\n\npublic external
open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n open val view:
Window?\n open val detail: Int?\n companion object {\n val NONE: Short?\n val
CAPTURING_PHASE: Short?\n val AT_TARGET: Short?\n val BUBBLING_PHASE: Short?\n }\n}\n\npublic external interface UIEventInit : EventInit {\n var view: Window? /* = null *\n get() =
definedExternally\n set(value) = definedExternally\n var detail: Int? /* = 0 *\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun UIEventInit(view: Window? = null,
detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit
{\n val o = js(\"({})\")\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n\n *\n\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n open val relatedTarget:
EventTarget?\n companion object {\n val NONE: Short?\n val CAPTURING_PHASE: Short?\n val
AT_TARGET: Short?\n val BUBBLING_PHASE: Short?\n }\n}\n\npublic external interface FocusEventInit :
UIEventInit {\n var relatedTarget: EventTarget? /* = null *\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n val o = js(\"({})\")\n o[\"relatedTarget\"] =
relatedTarget\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] =
cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n\n *\n\npublic external open class
MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n open val screenX: Int?\n open val screenY: Int?\n open val clientX: Int?

```

```

open val clientY: Int\n open val ctrlKey: Boolean\n open val shiftKey: Boolean\n open val altKey: Boolean\n
open val metaKey: Boolean\n open val button: Short\n open val buttons: Short\n open val relatedTarget:
EventTarget?\n open val region: String?\n open val pageX: Double\n open val pageY: Double\n open val x:
Double\n open val y: Double\n open val offsetX: Double\n open val offsetY: Double\n fun
getModifierState(keyArg: String): Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n var screenX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var screenY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var button: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n val o =
js(\"({})\")\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"]
= clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n
o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n
o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] =
modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n
o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean?
/* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierCapsLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierFn: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierFnLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierHyper: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierNumLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierScrollLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSuper: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbol: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbolLock: Boolean? / =
false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

```

```

\INVISIBLE_MEMBER\)\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n val o = js("{}")\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n
o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] =
modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n open val
deltaX: Double\n open val deltaY: Double\n open val deltaZ: Double\n open val deltaMode: Int\n\n companion object {\n val DOM_DELTA_PIXEL: Int\n val DOM_DELTA_LINE: Int\n val
DOM_DELTA_PAGE: Int\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n public external interface WheelEventInit :
MouseEventInit {\n var deltaX: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaY: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaZ: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaMode: Int? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @Suppress(\INVISIBLE_REFERENCE",
\INVISIBLE_MEMBER\)\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n val o = js("{}")\n
o["deltaX"] = deltaX\n o["deltaY"] = deltaY\n o["deltaZ"] = deltaZ\n o["deltaMode"] = deltaMode\n
o["screenX"] = screenX\n o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n
o["button"] = button\n o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] =
region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] =
metaKey\n o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n open val data: String\n open val isComposing: Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:

```



```

Short\n }n}\n\npublic external interface InputEventInit : UIEventInit {\n var data: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): InputEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"isComposing\"] = isComposing\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n open val key: String\n open val code: String\n open val location: Int\n open val ctrlKey: Boolean\n open val
shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val repeat: Boolean\n open val isComposing: Boolean\n open val charCode: Int\n open val keyCode: Int\n open val which: Int\n fun getModifierState(keyArg: String): Boolean\n}\n\ncompanion object {\n val
DOM_KEY_LOCATION_STANDARD: Int\n val DOM_KEY_LOCATION_LEFT: Int\n val
DOM_KEY_LOCATION_RIGHT: Int\n val DOM_KEY_LOCATION_NUMPAD: Int\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n var key: String? /* = \"\" */\n */\n get() = definedExternally\n set(value) = definedExternally\n var code: String? /* = \"\" */\n */\n get() =
definedExternally\n set(value) = definedExternally\n var location: Int? /* = 0 */\n */\n get() =
definedExternally\n set(value) = definedExternally\n var repeat: Boolean? /* = false */\n */\n get() =
definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\",
code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean?
= false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): KeyboardEventInit {\n val o = js(\"({})\")\n o[\"key\"] = key\n o[\"code\"] = code\n o[\"location\"] =
location\n o[\"repeat\"] = repeat\n o[\"isComposing\"] = isComposing\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] =
modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] =
modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n */\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n open val data: String\n}\n\ncompanion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }n}\n\npublic external interface CompositionEventInit : UIEventInit {\n var data: String? /* = \"\" */\n */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? =
\"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CompositionEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"view\"] = view\n
```

```

o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n */\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) {\n open val type: String\n open val target:
EventTarget?\n open val currentTarget: EventTarget?\n open val eventPhase: Short\n open val bubbles:
Boolean\n open val cancelable: Boolean\n open val defaultPrevented: Boolean\n open val composed:
Boolean\n open val isTrusted: Boolean\n open val timeStamp: Number\n fun composedPath():
Array<EventTarget>\n fun stopPropagation()\n fun stopImmediatePropagation()\n fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract
class EventTarget {\n fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external
interface EventListener {\n fun handleEvent(event: Event)\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n open val length: Int\n fun
item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n fun namedItem(name:
String): UnionElementOrHTMLCollection?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*/\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*/\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n override var length: Int\n open
var selectedIndex: Int\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to
Kotlin\n */\npublic external abstract class HTMLInputElement : Element, GlobalEventHandlers,

```

```

DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n open var title:
String\n open var lang: String\n open var translate: Boolean\n open var dir: String\n open val dataset:
DOMStringMap\n open var hidden: Boolean\n open var tabIndex: Int\n open var accessKey: String\n open
val accessKeyLabel: String\n open var draggable: Boolean\n open val dropzone: DOMTokenList\n open var
contextMenu: HTMLMenuElement?\n open var spellcheck: Boolean\n open var innerText: String\n open val
offsetParent: Element?\n open val offsetTop: Int\n open val offsetLeft: Int\n open val offsetWidth: Int\n open
val offsetHeight: Int\n fun click()\n fun focus()\n fun blur()\n fun forceSpellCheck()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n
*\n\npublic external abstract class HTMLUnknownElement : HTMLElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n
*\n\npublic external abstract class DOMStringMap\n\n@Suppress("\nINVISIBLE_REFERENCE",
\nINVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.get(name:
String): String? = asDynamic()[name]\n\n\n@Suppress("\nINVISIBLE_REFERENCE",
\nINVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.set(name:
String, value: String) { asDynamic()[name] = value }\n\n}\n\n/**\n * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n
*\n\npublic external abstract class HTMLHtmlElement : HTMLElement {\n open var version: String\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n
*\n\npublic external abstract class HTMLHeadElement : HTMLElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:

```

```

Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n *\npublic
external abstract class HTMLTitleElement : HTMLElement {\n open var text: String\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n *\npublic
external abstract class HTMLBaseElement : HTMLElement {\n open var href: String\n open var target:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n *\npublic
external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n open var href: String\n open var
crossOrigin: String?\n open var rel: String\n open var `as`: RequestDestination\n open val relList:
DOMTokenList\n open var media: String\n open var nonce: String\n open var hreflang: String\n open var
type: String\n open val sizes: DOMTokenList\n open varreferrerPolicy: String\n open var charset: String\n
 open var rev: String\n open var target: String\n open var scope: String\n open var workerType:
WorkerType\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n *\npublic
external abstract class HTMLMetaElement : HTMLElement {\n open var name: String\n open var httpEquiv:
String\n open var content: String\n open var scheme: String\n\n companion object {\n val

```

```

ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin \n * \n public
external abstract class HTMLStyleElement : HTMLElement, LinkStyle { \n open var media: String \n open var
nonce: String \n open var type: String \n \n companion object { \n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin \n * \n public
external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers { \n open var text: String \n
 open var link: String \n open var vLink: String \n open var aLink: String \n open var bgColor: String \n
 open
var background: String \n \n companion object { \n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin \n * \n
public external abstract class HTMLHeadingElement : HTMLElement { \n open var align: String \n \n companion
object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin \n * \n
public external abstract class HTMLParagraphElement : HTMLElement { \n open var align: String \n \n companion
object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val

```

```

TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin \n * \n public
external abstract class HTMLHRElement : HTMLInputElement { \n open var align: String \n open var color: String \n
open var noShade: Boolean \n open var size: String \n open var width: String \n \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin \n * \n public
external abstract class HTMLPreElement : HTMLInputElement { \n open var width: Int \n \n companion object { \n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin \n * \n public
external abstract class HTMLQuoteElement : HTMLInputElement { \n open var cite: String \n \n companion object { \n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin \n * \n public
external abstract class HTMLLOListElement : HTMLInputElement { \n open var reversed: Boolean \n open var start:
Int \n open var type: String \n open var compact: Boolean \n \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

```

```

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\n */\npublic
external abstract class HTMLUListElement : HTMLElement {\n open var compact: Boolean\n open var type:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n */\npublic
external abstract class HTMLLIElement : HTMLElement {\n open var value: Int\n open var type: String\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\n */\npublic
external abstract class HTMLDListElement : HTMLElement {\n open var compact: Boolean\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n */\npublic
external abstract class HTMLDivElement : HTMLElement {\n open var align: String\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

```

```

 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n
*/\npublic external abstract class HTMLAnchorElement : HTMLInputElement, HTMLHyperlinkElementUtils {\n
 open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val
reList: DOMTokenList\n open var hreflang: String\n open var type: String\n open var text: String\n open
var referrerPolicy: String\n open var coords: String\n open var charset: String\n open var name: String\n
 open var rev: String\n open var shape: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\n
*/\npublic external abstract class HTMLDataElement : HTMLInputElement {\n open var value: String\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n
*/\npublic external abstract class HTMLTimeElement : HTMLInputElement {\n open var dateTime: String\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n
*/\npublic external abstract class HTMLSpanElement : HTMLInputElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

```



```

val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n
*\npublic external abstract class HTMLBRElement : HTMLElement {\n open var clear: String\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to
Kotlin\n
*\npublic external interface HTMLHyperlinkElementUtils {\n var href: String\n val origin: String\n
var protocol: String\n var username: String\n var password: String\n var host: String\n
var hostname:
String\n var port: String\n var pathname: String\n var search: String\n var hash: String\n
}\n\n\n/**\n * Exposes
the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to
Kotlin\n
*\npublic external abstract class HTMLModElement : HTMLElement {\n open var cite: String\n open
var dateTime: String\n
companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n
*\npublic external abstract class HTMLPictureElement : HTMLElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n
*\npublic external abstract class HTMLSourceElement : HTMLElement {\n open var src: String\n open
var type: String\n open var srcset: String\n open var sizes: String\n open var media: String\n
companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n

```

```

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n
*\npublic external abstract class HTMLImageElement : HTMLInputElement, HTMLOrSVGImageElement,
TexImageSource {\n open var alt: String\n open var src: String\n open var srcset: String\n open var sizes:
String\n open var crossOrigin: String?\n open var useMap: String\n open var isMap: Boolean\n open var
width: Int\n open var height: Int\n open val naturalWidth: Int\n open val naturalHeight: Int\n open val
complete: Boolean\n open val currentSrc: String\n open var referrerPolicy: String\n open var name: String\n
open var lowsrc: String\n open var align: String\n open var hspace: Int\n open var vspace: Int\n open var
longDesc: String\n open var border: String\n open val x: Int\n open val y: Int\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n
*\npublic external abstract class HTMLIFrameElement : HTMLInputElement {\n open var src: String\n open var
srcdoc: String\n open var name: String\n open val sandbox: DOMTokenList\n open var allowFullscreen:
Boolean\n open var allowUserMedia: Boolean\n open var width: String\n open var height: String\n open var
referrerPolicy: String\n open val contentDocument: Document?\n open val contentWindow: Window?\n open
var align: String\n open var scrolling: String\n open var frameBorder: String\n open var longDesc: String\n
open var marginHeight: String\n open var marginWidth: String\n fun getSVGDocument(): Document?\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n
*\npublic external abstract class HTMLEmbedElement : HTMLInputElement {\n open var src: String\n open var
type: String\n open var width: String\n open var height: String\n open var align: String\n open var name:
String\n fun getSVGDocument(): Document?\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

```

```

 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n
*\npublic external abstract class HTMLElement : HTMLElement {\n open var data: String\n open var
type: String\n open var typeMustMatch: Boolean\n open var name: String\n open var useMap: String\n open
val form: HTMLFormElement?\n open var width: String\n open var height: String\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open val willValidate: Boolean\n open
val validity: ValidityState\n open val validationMessage: String\n open var align: String\n open var archive:
String\n open var code: String\n open var declare: Boolean\n open var hspace: Int\n open var standby:
String\n open var vspace: Int\n open var codeBase: String\n open var codeType: String\n open var border:
String\n fun getSVGDocument(): Document?\n fun checkValidity(): Boolean\n fun reportValidity():
Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n
*\npublic external abstract class HTMLParamElement : HTMLElement {\n open var name: String\n open var
value: String\n open var type: String\n open var valueType: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n
*\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n
 open var width: Int\n open var height: Int\n open val videoWidth: Int\n open val videoHeight: Int\n open var
poster: String\n open var playsInline: Boolean\n\n companion object {\n val NETWORK_EMPTY: Short\n
 val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE:
Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val
HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA:
Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

```

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n \*/\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n companion object {\n val NETWORK\_EMPTY: Short\n val NETWORK\_IDLE: Short\n val NETWORK\_LOADING: Short\n val NETWORK\_NO\_SOURCE: Short\n val HAVE\_NOTHING: Short\n val HAVE\_METADATA: Short\n val HAVE\_CURRENT\_DATA: Short\n val HAVE\_FUTURE\_DATA: Short\n val HAVE\_ENOUGH\_DATA: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n \*/\npublic external abstract class HTMLTrackElement : HTMLMediaElement {\n open var kind: String\n open var src: String\n open var srclang: String\n open var label: String\n open var default: Boolean\n open val readyState: Short\n open val track: TextTrack\n\n companion object {\n val NONE: Short\n val LOADING: Short\n val LOADED: Short\n val ERROR: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n \*/\npublic external abstract class HTMLMediaElement : HTMLMediaElement {\n open val error: MediaError?\n open var src: String\n open var srcObject: MediaProvider?\n open val currentSrc: String\n open var crossOrigin: String?\n open val networkState: Short\n open var preload: String\n open val buffered: TimeRanges\n open val readyState: Short\n open val seeking: Boolean\n open var currentTime: Double\n open val duration: Double\n open val paused: Boolean\n open var defaultPlaybackRate: Double\n open var playbackRate: Double\n open val played: TimeRanges\n open val seekable: TimeRanges\n open val ended: Boolean\n open var autoplay: Boolean\n open var loop: Boolean\n open var controls: Boolean\n open var volume: Double\n open var muted: Boolean\n open var defaultMuted: Boolean\n open val audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open val mediaKeys: MediaKeys?\n open var onencrypted: ((Event) -> dynamic)?\n open var onwaitingforkey: ((Event) -> dynamic)?\n fun load()\n fun canPlayType(type: String): CanPlayTypeResult\n fun fastSeek(time: Double)\n fun getStartDate(): dynamic\n fun play(): Promise<Unit>\n fun pause()\n fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\n fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n companion object {\n val NETWORK\_EMPTY: Short\n val NETWORK\_IDLE: Short\n val NETWORK\_LOADING: Short\n val NETWORK\_NO\_SOURCE: Short\n val HAVE\_NOTHING: Short\n val HAVE\_METADATA: Short\n val HAVE\_CURRENT\_DATA: Short\n val HAVE\_FUTURE\_DATA: Short\n val HAVE\_ENOUGH\_DATA: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val

CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin \n \* \n public external abstract class MediaError { \n open val code: Short \n \n companion object { \n val MEDIA\_ERR\_ABORTED: Short \n val MEDIA\_ERR\_NETWORK: Short \n val MEDIA\_ERR\_DECODE: Short \n val MEDIA\_ERR\_SRC\_NOT\_SUPPORTED: Short \n } \n} \n \n /\*\* \n \* Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin \n \* \n public external abstract class AudioTrackList : EventTarget { \n open val length: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): AudioTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin \n \* \n public external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack { \n open val id: String \n open val kind: String \n open val label: String \n open val language: String \n open var enabled: Boolean \n open val sourceBuffer: SourceBuffer? \n} \n \n /\*\* \n \* Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin \n \* \n public external abstract class VideoTrackList : EventTarget { \n open val length: Int \n open val selectedIndex: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): VideoTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin \n \* \n public external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack { \n open val id: String \n open val kind: String \n open val label: String \n open val language: String \n open var selected: Boolean \n open val sourceBuffer: SourceBuffer? \n} \n \n public external abstract class TextTrackList : EventTarget { \n open val length: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): TextTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin \n \* \n public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack { \n open val kind: TextTrackKind \n open val label: String \n open val language: String \n open val id: String \n open val inBandMetadataTrackDispatchType: String \n open var mode: TextTrackMode \n open val cues: TextTrackCueList? \n open val activeCues: TextTrackCueList? \n open var oncuechange: ((Event) -> dynamic)? \n open val sourceBuffer: SourceBuffer? \n fun addCue(cue: TextTrackCue) \n fun removeCue(cue: TextTrackCue) \n} \n \n public external abstract class TextTrackCueList { \n open val length: Int \n fun getCueById(id: String): TextTrackCue? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript

[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n \*^/npublic external abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var startTime: Double\n open var endTime: Double\n open var pauseOnExit: Boolean\n open var onenter: ((Event) -> dynamic)?\n open var onexit: ((Event) -> dynamic)?\n}\n/n/\*\*\n \* Exposes the JavaScript

[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n \*^/npublic external abstract class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int): Double\n}\n/n/\*\*\n \* Exposes the JavaScript

[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n \*^/npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n/n\n\npublic external interface TrackEventInit : EventInit {\n var track: UnionAudioTrackOrTextTrackOrVideoTrack? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n/n/\*\*\n \* Exposes the JavaScript

[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n \*^/npublic external abstract class HTMLElement : HTMLCollection {\n open var name: String\n open val areas: HTMLCollection\n\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n/n/\*\*\n \* Exposes the JavaScript

[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n \*^/npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var alt: String\n open var coords: String\n open var shape: String\n open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var referrerPolicy: String\n open var noHref: Boolean\n\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n/n/\*\*\n \* Exposes the JavaScript

[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n \*^/npublic external abstract class HTMLTableElement : HTMLElement {\n open var caption: HTMLTableCaptionElement?\n\n open var tHead: HTMLTableSectionElement?\n\n open var tFoot: HTMLTableSectionElement?\n\n open val tBodies: HTMLCollection\n\n open

```

var align: String\n open var border: String\n open var frame: String\n open var rules: String\n open var
summary: String\n open var width: String\n open var bgColor: String\n open var cellPadding: String\n open
var cellSpacing: String\n fun createCaption(): HTMLTableCaptionElement\n fun deleteCaption()\n fun
createTHead(): HTMLTableSectionElement\n fun deleteTHead()\n fun createTFoot():
HTMLTableSectionElement\n fun deleteTFoot()\n fun createTBody(): HTMLTableSectionElement\n fun
insertRow(index: Int = definedExternally): HTMLTableRowElement\n fun deleteRow(index: Int)\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLInputElement {\n open var align:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
*/\npublic external abstract class HTMLTableColElement : HTMLInputElement {\n open var span: Int\n open var
align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var width:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLInputElement {\n open val rows:
HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign:
String\n fun insertRow(index: Int = definedExternally): HTMLInputElement\n fun deleteRow(index: Int)\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n

```

```

 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
*\n\npublic external abstract class HTMLTableRowElement : HTMLElement {\n open val rowIndex: Int\n open
val sectionRowIndex: Int\n open val cells: HTMLCollection\n open var align: String\n open var ch: String\n
open var chOff: String\n open var vAlign: String\n open var bgColor: String\n fun insertCell(index: Int =
definedExternally): HTMLElement\n fun deleteCell(index: Int)\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n
*\n\npublic external abstract class HTMLTableCellElement : HTMLElement {\n open var colSpan: Int\n open var
rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr:
String\n open var align: String\n open var axis: String\n open var height: String\n open var width: String\n
open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open
var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n
*\n\npublic external abstract class HTMLFormElement : HTMLElement {\n open var acceptCharset: String\n open var
action: String\n open var autocomplete: String\n open var enctype: String\n open var encoding: String\n open
var method: String\n open var name: String\n open var noValidate: Boolean\n open var target: String\n open
val elements: HTMLFormControlsCollection\n open val length: Int\n fun submit()\n fun reset()\n fun
checkValidity(): Boolean\n fun reportValidity(): Boolean\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n}\n}\n\n@Suppress("INVISIBLE_REFERENCE"),

```



```

\ "INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun
HTMLFormElement.get(index: Int): Element? =
asDynamic()[index] \n \n @Suppress("INVISIBLE_REFERENCE" ,
\ "INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun
HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name] \n \n /** \n * Exposes
the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to
Kotlin \n * \n public external abstract class HTMLLabelElement : HTMLMElement { \n open val form:
HTMLFormElement? \n open var htmlFor: String \n open val control: HTMLMElement? \n \n companion object
{ \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n
val CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE: Short \n val
ENTITY_NODE: Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE:
Short \n val DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin \n * \n public
external abstract class HTMLInputElement : HTMLMElement { \n open var accept: String \n open var alt: String \n
open var autocomplete: String \n open var autofocus: Boolean \n open var defaultChecked: Boolean \n open var
checked: Boolean \n open var dirName: String \n open var disabled: Boolean \n open val form:
HTMLFormElement? \n open val files: FileList? \n open var formAction: String \n open var formEnctype:
String \n open var formMethod: String \n open var formNoValidate: Boolean \n open var formTarget: String \n
open var height: Int \n open var indeterminate: Boolean \n open var inputMode: String \n open val list:
HTMLMElement? \n open var max: String \n open var maxLength: Int \n open var min: String \n open var
minLength: Int \n open var multiple: Boolean \n open var name: String \n open var pattern: String \n open var
placeholder: String \n open var readOnly: Boolean \n open var required: Boolean \n open var size: Int \n open
var src: String \n open var step: String \n open var type: String \n open var defaultValue: String \n open var
value: String \n open var valueAsDate: dynamic \n open var valueAsNumber: Double \n open var width: Int \n
open val willValidate: Boolean \n open val validity: ValidityState \n open val validationMessage: String \n open
val labels: NodeList \n open var selectionStart: Int? \n open var selectionEnd: Int? \n open var
selectionDirection: String? \n open var align: String \n open var useMap: String \n fun stepUp(n: Int =
definedExternally) \n fun stepDown(n: Int = definedExternally) \n fun checkValidity(): Boolean \n fun
reportValidity(): Boolean \n fun setCustomValidity(error: String) \n fun select() \n fun
setRangeText(replacement: String) \n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally) \n fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally) \n \n companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE:
Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val
ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin \n * \n
public external abstract class HTMLButtonElement : HTMLMElement { \n open var autofocus: Boolean \n

```

```

open var disabled: Boolean\n open val form: HTMLFormElement?\n open var formAction: String\n open var
formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var
formTarget: String\n open var name: String\n open var type: String\n open var value: String\n open var
menu: HTMLMenuElement?\n open val willValidate: Boolean\n open val validity: ValidityState\n open val
validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity():
Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }
}\n\n/**\n * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n *\npublic
external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n open var
autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required: Boolean\n
open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override var length:
Int\n open val selectedOptions: HTMLCollection\n open var selectedIndex: Int\n open var value: String\n
open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open
val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun
remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n *\npublic
external abstract class HTMLDataListElement : HTMLInputElement {\n open val options:
HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

```

```

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*\npublic external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open var label:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var label: String\n open var defaultSelected: Boolean\n open var selected:
Boolean\n open var value: String\n open var text: String\n open val index: Int\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n open var autocomplete: String\n
open var autofocus: Boolean\n open var cols: Int\n open var dirName: String\n open var disabled: Boolean\n
open val form: HTMLFormElement?\n open var inputMode: String\n open var maxLength: Int\n open var
minLength: Int\n open var name: String\n open var placeholder: String\n open var readOnly: Boolean\n open
var required: Boolean\n open var rows: Int\n open var wrap: String\n open val type: String\n open var
defaultValue: String\n open var value: String\n open val textLength: Int\n open val willValidate: Boolean\n
open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n open var
selectionStart: Int?\n open var selectionEnd: Int?\n open var selectionDirection: String?\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n fun select()\n fun
setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

```

DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin \n  
\* \n public external abstract class HTMLKeygenElement : HTMLInputElement { \n open var autofocus: Boolean \n  
open var challenge: String \n open var disabled: Boolean \n open val form: HTMLFormElement? \n open var  
keytype: String \n open var name: String \n open val type: String \n open val willValidate: Boolean \n open val  
validity: ValidityState \n open val validationMessage: String \n open val labels: NodeList \n fun checkValidity():  
Boolean \n fun reportValidity(): Boolean \n fun setCustomValidity(error: String) \n \n companion object { \n  
val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val  
CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE:  
Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin \n  
\* \n public external abstract class HTMLOutputElement : HTMLInputElement { \n open val htmlFor: DOMTokenList \n  
open val form: HTMLFormElement? \n open var name: String \n open val type: String \n open var  
defaultValue: String \n open var value: String \n open val willValidate: Boolean \n open val validity:  
ValidityState \n open val validationMessage: String \n open val labels: NodeList \n fun checkValidity():  
Boolean \n fun reportValidity(): Boolean \n fun setCustomValidity(error: String) \n \n companion object { \n  
val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val  
CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE:  
Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin \n  
\* \n public external abstract class HTMLProgressElement : HTMLInputElement { \n open var value: Double \n open  
var max: Double \n open val position: Double \n open val labels: NodeList \n \n companion object { \n val  
ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val  
CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE:  
Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript

[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n \* public external abstract class HTMLMeterElement : HTMLInputElement {\n open var value: Double\n open var min: Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n \* public external abstract class HTMLFieldSetElement : HTMLInputElement {\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements: HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n \* public external abstract class HTMLLegendElement : HTMLInputElement {\n open val form: HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n \* public external abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n }\n\n /\*\*\n \* Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n \* public external abstract class HTMLDetailsElement : HTMLInputElement {\n open var open: Boolean\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val

```

TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external abstract class
HTMLMenuElement : HTMLInputElement { \n open var type: String\n open var label: String\n open var compact:
Boolean\n\n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external abstract class
HTMLMenuItemElement : HTMLInputElement { \n open var type: String\n open var label: String\n open var icon:
String\n open var disabled: Boolean\n open var checked: Boolean\n open var radiogroup: String\n open var
default: Boolean\n\n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external open class
RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event { \n open val
relatedTarget: EventTarget?\n\n companion object { \n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n } \n} \n\npublic external interface
RelatedEventInit : EventInit { \n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget:
EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
RelatedEventInit { \n val o = js("{}")\n o["relatedTarget"] = relatedTarget\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n} \n\n/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\n\npublic external abstract class HTMLDialogElement : HTMLInputElement { \n open var open: Boolean\n open var
returnValue: String\n fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n fun
showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n fun close(returnValue: String =
definedExternally)\n\n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

```

```

DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin \n * \n public
external abstract class HTMLScriptElement : HTMLMElement, HTMLOrSVGScriptElement { \n open var src:
String \n open var type: String \n open var charset: String \n open var async: Boolean \n open var defer:
Boolean \n open var crossOrigin: String? \n open var text: String \n open var nonce: String \n open var event:
String \n open var htmlFor: String \n \n companion object { \n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin \n
* \n public external abstract class HTMLTemplateElement : HTMLMElement { \n open val content:
DocumentFragment \n \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin \n * \n public
external abstract class HTMLSlotElement : HTMLMElement { \n open var name: String \n fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node> \n \n companion object { \n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n public external interface
AssignedNodesOptions { \n var flatten: Boolean? /* = false */ \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\") \n @kotlin.internal.InlineOnly \n public inline fun AssignedNodesOptions(flatten:
Boolean? = false): AssignedNodesOptions { \n val o = js(\"({})\") \n o[\"flatten\"] = flatten \n return
o \n} \n \n /** \n * Exposes the JavaScript

```

```

[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n
*\npublic external abstract class HTMLCanvasElement : HTMLInputElement, CanvasImageSource, TexImageSource\n
{\n open var width: Int\n open var height: Int\n fun getContext(contextId: String, vararg arguments: Any?):\n RenderingContext?\n fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally):\n String\n fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? =\n definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:\n Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val\n ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val\n PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val\n DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface\n CanvasRenderingContext2DSettings {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n\n set(value) = definedExternally\n }\n\n @Suppress(\n "INVISIBLE_REFERENCE",\n "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun\n CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n val o =\n js("{}")\n o["alpha"] = alpha\n return o\n }\n\n /**\n * Exposes the JavaScript\n [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to\n Kotlin\n */\n public external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,\n CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,\n CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,\n CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n open val canvas: HTMLCanvasElement\n }\n\n public external interface CanvasState {\n fun save()\n fun\n restore()\n }\n\n public external interface CanvasTransform {\n fun scale(x: Double, y: Double)\n fun\n rotate(angle: Double)\n fun translate(x: Double, y: Double)\n fun transform(a: Double, b: Double, c: Double, d:\n Double, e: Double, f: Double)\n fun getTransform(): DOMMatrix\n fun setTransform(a: Double, b: Double, c:\n Double, d: Double, e: Double, f: Double)\n fun setTransform(transform: dynamic = definedExternally)\n fun\n resetTransform()\n }\n\n public external interface CanvasCompositing {\n var globalAlpha: Double\n var\n globalCompositeOperation: String\n }\n\n public external interface CanvasImageSmoothing {\n var\n imageSmoothingEnabled: Boolean\n var imageSmoothingQuality: ImageSmoothingQuality\n }\n\n public external\n interface CanvasFillStrokeStyles {\n var strokeStyle: dynamic\n get() = definedExternally\n set(value) =\n definedExternally\n var fillStyle: dynamic\n get() = definedExternally\n set(value) = definedExternally\n\n fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n fun\n createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n\n fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n }\n\n public external interface\n CanvasShadowStyles {\n var shadowOffsetX: Double\n var shadowOffsetY: Double\n var shadowBlur:\n Double\n var shadowColor: String\n }\n\n public external interface CanvasFilters {\n var filter:\n String\n }\n\n public external interface CanvasRect {\n fun clearRect(x: Double, y: Double, w: Double, h:\n Double)\n fun fillRect(x: Double, y: Double, w: Double, h: Double)\n fun strokeRect(x: Double, y: Double, w:\n Double, h: Double)\n }\n\n public external interface CanvasDrawPath {\n fun beginPath()\n fun fill(fillRule:\n CanvasFillRule = definedExternally)\n fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n\n fun stroke()\n fun stroke(path: Path2D)\n fun clip(fillRule: CanvasFillRule = definedExternally)\n fun\n clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun resetClip()\n fun isPointInPath(x:\n Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInPath(path: Path2D, x:\n Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInStroke(x: Double, y:

```



```

Double): Boolean\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external
interface CanvasUserInterface {\n fun drawFocusIfNeeded(element: Element)\n fun drawFocusIfNeeded(path:
Path2D, element: Element)\n fun scrollPathIntoView()\n fun scrollPathIntoView(path: Path2D)\n}\n\npublic
external interface CanvasText {\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n fun addHitRegion(options: HitRegionOptions = definedExternally)\n fun
removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n fun
createImageData(sw: Double, sh: Double): ImageData\n fun createImageData(imagedata: ImageData):
ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n var lineWidth: Double\n var lineCap: CanvasLineCap\n var
lineJoin: CanvasLineJoin\n var miterLimit: Double\n var lineDashOffset: Double\n fun setLineDash(segments:
Array<Double>)\n fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles
{\n var font: String\n var textAlign: CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var
direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n fun closePath()\n fun moveTo(x:
Double, y: Double)\n fun.lineTo(x: Double, y: Double)\n fun quadraticCurveTo(cpx: Double, cpy: Double, x:
Double, y: Double)\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y:
Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double,
y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y:
Double, w: Double, h: Double)\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle:
Double, anticlockwise: Boolean = definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic external
abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the
JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n *
Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n
*/\n\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft:
Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val
fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val
actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent:
Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val
ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null
/\n get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? / =
CanvasFillRule.NONZERO */\n get() = definedExternally\n set(value) = definedExternally\n var id:
String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /* =
null */\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\"
/\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? / = null */\n
get() = definedExternally\n set(value) = definedExternally\n var label: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n var role: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun HitRegionOptions(path: Path2D? =

```

```

null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = "", parentID: String? = null, cursor:
String? = "inherit", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {
 val o = js("{}")
 o["path"] = path
 o["fillRule"] = fillRule
 o["id"] = id
 o["parentID"] = parentID
 o["cursor"] = cursor
 o["control"] = control
 o["label"] = label
 o["role"] = role
 return o
}

Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin
public external open class ImageData : ImageBitmapSource, TexImageSource {
 constructor(sw: Int, sh: Int)
 constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)
 open val width: Int
 open val height: Int
 open val data: Uint8ClampedArray
}

Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin
public external open class Path2D() : CanvasPath {
 constructor(path: Path2D)
 constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
 constructor(d: String)
 fun addPath(path: Path2D, transform: dynamic = definedExternally)
 override fun closePath()
 override fun moveTo(x: Double, y: Double)
 override fun lineTo(x: Double, y: Double)
 override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
 override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
 override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
 override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
 override fun rect(x: Double, y: Double, w: Double, h: Double)
 override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)
 override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)
}

Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin
public external abstract class ImageBitmapRenderingContext {
 open val canvas: HTMLCanvasElement
 fun transferFromImageBitmap(bitmap: ImageBitmap?)
}

public external interface ImageBitmapRenderingContextSettings {
 var alpha: Boolean? /* = true */
 get() = definedExternally
 set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {
 val o = js("{}")
 o["alpha"] = alpha
 return o
}

Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin
public external abstract class CustomElementRegistry {
 fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally)
 fun get(name: String): Any?
 fun whenDefined(name: String): Promise<Unit>
}

public external interface ElementDefinitionOptions {
 var extends: String?
 get() = definedExternally
 set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {
 val o = js("{}")
 o["extends"] = extends
 return o
}

public external interface ElementContentEditable {
 var contentEditable: String
 val isContentEditable: Boolean
}

Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin
public external abstract class DataTransfer {
 open var dropEffect: String
 open var effectAllowed: String
 open val items: DataTransferItemList
 open val types: Array<out String>
 open val files: FileList
 fun setDragImage(image: Element, x: Int, y: Int)
 fun getData(format: String): String
 fun setData(format: String, data: String)
 fun clearData(format: String = definedExternally)
}

Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin
public external abstract class DataTransferItemList {
 open val length: Int
 fun add(data: String, type: String): DataTransferItem?
 fun add(data: File): DataTransferItem?
 fun remove(index: Int)
 fun clear()
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun

```

```

DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n\n^\npublic
external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun
getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\n\n^\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val
dataTransfer: DataTransfer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n get() = definedExternally\n
 set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit {\n val o = js("{}")\n o["dataTransfer"] = dataTransfer\n o["screenX"] = screenX\n
 o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n
 o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] =
ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n
 o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
 o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
 o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
 o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin\n\n^\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val
document: Document\n open var name: String\n open val location: Location\n open val history: History\n
 open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar:
BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n
 open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n
 open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val
frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n
 open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n
 open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val
pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
 fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally):
Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun
print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
 fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:

```

```

Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:
ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n *\npublic
external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open
val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data:
Any?, title: String, url: String? = definedExternally)\n fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n *\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url: String)\n fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n *\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PopStateEventInit
: EventInit {\n var state: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n val o
= js(\"({})\")\n o[\"state\"] = state\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n *\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n open val oldURL: String\n open val newURL: String\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n var oldURL: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var newURL: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL:
String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): HashChangeEventInit {\n val o = js(\"({})\")\n o[\"oldURL\"] = oldURL\n o[\"newURL\"]
= newURL\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n *\npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {\n open val persisted: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n var persisted: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PageTransitionEventInit(persisted:
Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):

```

```

PageTransitionEventInit {\n val o = js("{}")\n o["persisted"] = persisted\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n */\npublic external open class BeforeUnloadEvent : Event {\n var returnValue: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n public external abstract class ApplicationCache : EventTarget {\n open val status: Short\n open var onchecking: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onnoupdate: ((Event) -> dynamic)?\n open var ondownloading: ((Event) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onupdateready: ((Event) -> dynamic)?\n open var oncached: ((Event) -> dynamic)?\n open var onobsolete: ((Event) -> dynamic)?\n fun update()\n fun abort()\n fun swapCache()\n\n companion object {\n val UNCACHED: Short\n val IDLE: Short\n val CHECKING: Short\n val DOWNLOADING: Short\n val UPDATEREADY: Short\n val OBSOLETE: Short\n }\n }\n}\n\n/**\n * Exposes the JavaScript [NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic external interface NavigatorOnLine {\n val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n */\npublic external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n open val message: String\n open val filename: String\n open val lineno: Int\n open val colno: Int\n open val error: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n public external interface ErrorEventInit : EventInit {\n var message: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var filename: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var lineno: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var colno: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var error: Any? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n }\n\n @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun ErrorEventInit(message: String? = "", filename: String? = "", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n val o = js("{}")\n o["message"] = message\n o["filename"] = filename\n o["lineno"] = lineno\n o["colno"] = colno\n o["error"] = error\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n }\n}\n\n/**\n * Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n */\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\n open val promise: Promise<Any?>\n open val reason: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n public external interface PromiseRejectionEventInit : EventInit {\n var promise: Promise<Any?>\n var reason: Any?\n get() = definedExternally\n set(value) = definedExternally\n }\n\n @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun PromiseRejectionEventInit(promise: Promise<Any?>, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\n val o = js("{}")\n o["promise"] = promise\n o["reason"] = reason\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n }\n}\n\n/**\n * Exposes the JavaScript [GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n */\npublic external interface GlobalEventHandlers {\n var onabort: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onblur: ((FocusEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncancel: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncanplay: ((Event) -> dynamic)?\n get() =

```

```

definedExternally\n set(value) = definedExternally\n var oncanplaythrough: ((Event) -> dynamic)?\n get()
= definedExternally\n set(value) = definedExternally\n var onchange: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onclick: ((MouseEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onclose: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var oncontextmenu: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var oncuechange: ((Event) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondblclick: ((MouseEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragenter: ((DragEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondragexit: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragleave: ((DragEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondragover: ((DragEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondragstart: ((DragEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondrop: ((DragEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var ondurationchange: ((Event) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onemptied: ((Event) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onended: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onfocus: ((FocusEvent) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oninput: ((InputEvent) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oninvalid: ((Event) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onkeydown:
((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onkeypress: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
 var onkeyup: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onload: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onloadeddata: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onloadedmetadata: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadend: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadstart: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onmousedown: ((MouseEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onmouseenter: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onmouseleave: ((MouseEvent) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmousemove:
((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onmouseout: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
 var onmouseover: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onmouseup: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onwheel: ((WheelEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpause: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onplay: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onplaying: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onprogress: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onratechange: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onreset: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onresize: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onscroll: ((Event) -> dynamic)?\n get() = definedExternally\n

```

```

set(value) = definedExternally\n var onseeked: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onseeking: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onselect: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onshow: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onstalled: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onsubmit: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onsuspend: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ontimeupdate: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ontoggle: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onvolumechange: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onwaiting: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ongotpointercapture: ((PointerEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onpointerdown: ((PointerEvent) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onpointermove:
((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onpointerup: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onpointerover: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpointerout: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onpointerenter: ((PointerEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onpointerleave: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\npublic external interface WindowEventHandlers {\n var onafterprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n get() = definedExternally\n set(value) = definedExternally\n var onhashchange:
((HashChangeEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onlanguagechange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onoffline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var ononline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onpagehide: ((PageTransitionEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpageshow: ((PageTransitionEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onpopstate: ((PopStateEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onrejectionhandled: ((Event) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onstorage: ((StorageEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n var oncopy:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncut:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onpaste: ((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n
*\npublic external interface WindowOrWorkerGlobalScope {\n val origin: String\n val caches:

```

```

CacheStorage\n fun btoa(data: String): String\n fun atob(data: String): String\n fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearTimeout(handle: Int =
definedExternally)\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?):
Int\n fun clearInterval(handle: Int = definedExternally)\n fun createImageBitmap(image: ImageBitmapSource,
options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n fun fetch(input: dynamic, init: RequestInit = definedExternally):
Promise<Response>\n}\n\n/**\n * Exposes the JavaScript
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n *\npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n open val clipboard: Clipboard\n open val mediaDevices:
MediaDevices\n open val maxTouchPoints: Int\n open val serviceWorker: ServiceWorkerContainer\n fun
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n fun getUserMedia(constraints:
MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun
vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n *\npublic external interface
NavigatorID {\n val appCodeName: String\n val appName: String\n val appVersion: String\n val platform:
String\n val product: String\n val productSub: String\n val userAgent: String\n val vendor: String\n val
vendorSub: String\n val oscpu: String\n fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n *\npublic
external interface NavigatorLanguage {\n val language: String\n val languages: Array<out String>\n}\n\npublic
external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title:
String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType:
String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n *\npublic
external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeArray\n fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *\npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun
item(index: Int): Plugin?\n fun namedItem(name: String):
Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name:
String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n *\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n
fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name:
String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n *\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n open val name: String\n open val description: String\n open val filename:

```



```

String\n override fun item(index: Int): MimeTypes\n fun namedItem(name: String):
MimeTypes\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int):
MimeTypes? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String):
MimeTypes? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n *\npublic external abstract
class MimeType {\n open val type: String\n open val description: String\n open val suffixes: String\n open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n *\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n open val width: Int\n open val height:
Int\n fun close()\n}\n\npublic external interface ImageBitmapOptions {\n var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n get() = definedExternally\n set(value) =
definedExternally\n var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n get() =
definedExternally\n set(value) = definedExternally\n var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */\n get() = definedExternally\n set(value) = definedExternally\n var
resizeWidth: Int?\n get() = definedExternally\n set(value) = definedExternally\n var resizeHeight: Int?\n
get() = definedExternally\n set(value) = definedExternally\n var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha:
PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n val o = js(\"({})\")\n o[\"imageOrientation\"]
= imageOrientation\n o[\"premultiplyAlpha\"] = premultiplyAlpha\n o[\"colorSpaceConversion\"] =
colorSpaceConversion\n o[\"resizeWidth\"] = resizeWidth\n o[\"resizeHeight\"] = resizeHeight\n
o[\"resizeQuality\"] = resizeQuality\n return o\n}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n *\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n open val data:
Any?\n open val origin: String\n open val lastEventId: String\n open val source:
UnionMessagePortOrWindowProxy?\n open val ports: Array<out MessagePort>\n fun initMessageEvent(type:
String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface MessageEventInit : EventInit {\n var data: Any? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var origin: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n var lastEventId: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n var source: UnionMessagePortOrWindowProxy? /* =
null */\n get() = definedExternally\n set(value) = definedExternally\n var ports: Array<MessagePort>? /*
= arrayOf() */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MessageEventInit(data: Any? = null,
origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindowProxy? = null, ports:
Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n
o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript

```

```

[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n *\npublic external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n open
val url: String\n open val withCredentials: Boolean\n open val readyState: Short\n var onopen: ((Event) ->
dynamic)?\n var onmessage: ((MessageEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n fun
close()\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSED:
Short\n }\n}\n\npublic external interface EventSourceInit {\n var withCredentials: Boolean? /* = false *\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {\n val o = js(\"({})\")\n o[\"withCredentials\"] = withCredentials\n return
o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n
*\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var
onopen: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onclose: ((Event) -> dynamic)?\n
open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var
binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun
send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data:
ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val
CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n *\npublic external open class
CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean:
Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false *\n get() =
definedExternally\n set(value) = definedExternally\n var code: Short? /* = 0 *\n get() =
definedExternally\n set(value) = definedExternally\n var reason: String? /* = \"\" *\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? =
false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CloseEventInit {\n val o = js(\"({})\")\n o[\"wasClean\"] = wasClean\n o[\"code\"] = code\n
o[\"reason\"] = reason\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n *\npublic external
open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n *\npublic
external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the
JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n
*\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val
navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var
onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline:
((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the

```

## JavaScript

[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n \*\\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun close()\n}\n\n/\*\*\n \* Exposes the JavaScript

[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n \*\\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name: String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun close()\n}\n\n/\*\*\n \* Exposes the JavaScript

[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n \*\\npublic external interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n/\*\*\n \* Exposes the JavaScript

[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n \*\\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n var onmessage: ((MessageEvent) -> dynamic)?\n override var onerror: ((Event) -> dynamic)?\n fun terminate()\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n var type: WorkerType? /\* = WorkerType.CLASSIC \*/\n get() = definedExternally\n set(value) = definedExternally\n var credentials: RequestCredentials? /\* = RequestCredentials.OMIT \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n val o = js(\"({})\")\n o[\"type\"] = type\n o[\"credentials\"] = credentials\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n \*\\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n open val port: MessagePort\n override var onerror: ((Event) -> dynamic)?\n}\n\n/\*\*\n \* Exposes the JavaScript

[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n \*\\npublic external interface NavigatorConcurrentHardware {\n val hardwareConcurrency: Number\n}\n\n/\*\*\n \* Exposes the JavaScript

[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n \*\\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n open val serviceWorker: ServiceWorkerContainer\n}\n\n/\*\*\n \* Exposes the JavaScript

[WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n \*\\npublic external abstract class WorkerLocation {\n open val href: String\n open val origin: String\n open val protocol: String\n open val host: String\n open val hostname: String\n open val port: String\n open val pathname: String\n open val search: String\n open val hash: String\n}\n\n/\*\*\n \* Exposes the JavaScript

[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n \*\\npublic external abstract class Storage {\n open val length: Int\n fun key(index: Int): String?\n fun removeItem(key: String)\n fun clear()\n fun getItem(key: String): String?\n fun setItem(key: String, value: String)\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? = asDynamic()[key]\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n/\*\*\n \* Exposes the JavaScript

[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n \*\\npublic external interface WindowSessionStorage {\n val sessionStorage: Storage\n}\n\n/\*\*\n \* Exposes the JavaScript

[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n \*\\npublic external interface WindowLocalStorage {\n val localStorage: Storage\n}\n\n/\*\*\n \* Exposes

```

the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n *\n\npublic
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
open val key: String?\n open val oldValue: String?\n open val newValue: String?\n open val url: String\n
open val storageArea: Storage?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n\npublic external interface
StorageEventInit : EventInit {\n var key: String? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n var oldValue: String? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n var newValue: String? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n var url: String? /* = \"\" */\n get() = definedExternally\n set(value) =
definedExternally\n var storageArea: Storage? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String? = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n val o =
js(\"({})\")\n o[\"key\"] = key\n o[\"oldValue\"] = oldValue\n o[\"newValue\"] = newValue\n o[\"url\"] =
url\n o[\"storageArea\"] = storageArea\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n return o\n}\n\n\npublic external abstract class HTMLAppletElement :
HTMLElement {\n open var align: String\n open var alt: String\n open var archive: String\n open var code:
String\n open var codeBase: String\n open var height: String\n open var hspace: Int\n open var name:
String\n open var _object: String\n open var vspace: Int\n open var width: String\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n
*\n\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n open var behavior: String\n open
var bgColor: String\n open var direction: String\n open var height: String\n open var hspace: Int\n open var
loop: Int\n open var scrollAmount: Int\n open var scrollDelay: Int\n open var trueSpeed: Boolean\n open var
vspace: Int\n open var width: String\n open var onbounce: ((Event) -> dynamic)?\n open var onfinish: ((Event)
-> dynamic)?\n open var onstart: ((Event) -> dynamic)?\n fun start()\n fun stop()\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n\n/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*\n\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n open var
cols: String\n open var rows: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val

```

```

ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLFrameElement : HTML_Element {\n open var name: String\n open var scrolling: String\n open var src:
String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open
var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLDirectoryElement : HTML_Element {\n open var compact: Boolean\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n *\n\npublic
external abstract class HTMLFontElement : HTML_Element {\n open var color: String\n open var face: String\n
open var size: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface External
{\n fun AddSearchProvider()\n fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n
var bubbles: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
cancelable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
composed: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

```

```

\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n val o = js(\`({})\`)\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n\`*\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n *\n\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n
open val detail: Any?\n fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail:
Any?)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CustomEventInit :
EventInit {\n var detail: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n val o
= js(\`({})\`)\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\npublic external interface EventListenerOptions {\n var capture:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n val o = js(\`({})\`)\n o["capture"] = capture\n return
o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n var passive: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var once: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n val o =
js(\`({})\`)\n o["passive"] = passive\n o["once"] = once\n o["capture"] = capture\n return o\n}\n\npublic
external interface NonElementParentNode {\n fun getElementById(elementId: String): Element?\n}\n\n\`*\n *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n *\n\npublic
external interface DocumentOrShadowRoot {\n val fullscreenElement: Element?\n get() =
definedExternally\n}\n\n\`*\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n *\n\npublic external interface
ParentNode {\n val children: HTMLCollection\n val firstElementChild: Element?\n get() =
definedExternally\n val lastElementChild: Element?\n get() = definedExternally\n val childElementCount:
Int\n fun prepend(vararg nodes: dynamic)\n fun append(vararg nodes: dynamic)\n fun querySelector(selectors:
String): Element?\n fun querySelectorAll(selectors: String): NodeList\n}\n\n\`*\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n *\n\npublic external interface NonDocumentTypeChildNode {\n val previousElementSibling: Element?\n
get() = definedExternally\n val nextElementSibling: Element?\n get() = definedExternally\n}\n\n\`*\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n *\n\npublic
external interface ChildNode {\n fun before(vararg nodes: dynamic)\n fun after(vararg nodes:
dynamic)\n fun replaceWith(vararg nodes: dynamic)\n fun remove()\n}\n\n\`*\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n *\n\npublic external interface Slotable
{\n val assignedSlot: HTMLSlotElement?\n get() = definedExternally\n}\n\n\`*\n * Exposes the JavaScript
[NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n *\n\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n override fun item(index: Int):
Node?\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index]\n\n\`*\n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n *\n\npublic

```

```

external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {
 override fun item(index: Int): Element?
 fun namedItem(name: String): Element?
}
@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]
@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]
/** Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin */
public external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {
 fun observe(target: Node, options: MutationObserverInit = definedExternally)
 fun disconnect()
 fun takeRecords(): Array<MutationRecord>
}
/** Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin */
public external interface MutationObserverInit {
 var childList: Boolean? /* = false */
 get() = definedExternally
 set(value) = definedExternally
 var attributes: Boolean?
 get() = definedExternally
 set(value) = definedExternally
 var characterData: Boolean?
 get() = definedExternally
 set(value) = definedExternally
 var subtree: Boolean? /* = false */
 get() = definedExternally
 set(value) = definedExternally
 var attributeOldValue: Boolean?
 get() = definedExternally
 set(value) = definedExternally
 var characterDataOldValue: Boolean?
 get() = definedExternally
 set(value) = definedExternally
 var attributeFilter: Array<String>?
 get() = definedExternally
 set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {
 val o = js("{}")
 o["childList"] = childList
 o["attributes"] = attributes
 o["characterData"] = characterData
 o["subtree"] = subtree
 o["attributeOldValue"] = attributeOldValue
 o["characterDataOldValue"] = characterDataOldValue
 o["attributeFilter"] = attributeFilter
 return o
}
/** Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin */
public external abstract class MutationRecord {
 open val type: String
 open val target: Node
 open val addedNodes: NodeList
 open val removedNodes: NodeList
 open val previousSibling: Node?
 open val nextSibling: Node?
 open val attributeName: String?
 open val attributeNamespace: String?
 open val oldValue: String?
}
/** Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin */
public external abstract class Node : EventTarget {
 open val nodeName: String
 open val baseURI: String
 open val isConnected: Boolean
 open val ownerDocument: Document?
 open val parentNode: Node?
 open val parentElement: Element?
 open val childNodes: NodeList
 open val firstChild: Node?
 open val lastChild: Node?
 open val previousSibling: Node?
 open val nextSibling: Node?
 open var nodeValue: String?
 open var textContent: String?
 fun getRootNode(options: GetRootNodeOptions = definedExternally): Node
 fun hasChildNodes(): Boolean
 fun normalize()
 fun cloneNode(deep: Boolean = definedExternally): Node
 fun isEqualNode(otherNode: Node?): Boolean
 fun isSameNode(otherNode: Node?): Boolean
 fun compareDocumentPosition(other: Node): Short
 fun contains(other: Node?): Boolean
 fun lookupPrefix(namespace: String?): String?
 fun lookupNamespaceURI(prefix: String?): String?
 fun isDefaultNamespace(namespace: String?): Boolean
 fun insertBefore(node: Node, child: Node?): Node
 fun appendChild(node: Node): Node
 fun replaceChild(node: Node, child: Node): Node
 fun removeChild(child: Node): Node
}
companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
}

```

```

DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external interface
GetRootNodeOptions {n var composed: Boolean? /* = false */n get() = definedExternallyn set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed:
Boolean? = false): GetRootNodeOptions {n val o = js(\"({})\")n o[\"composed\"] = composedn return
o\n}\n\n/**n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to
Kotlinn */n\npublic external open class Document : Node, GlobalEventHandlers,
DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode,
GeometryUtils {n open val implementation: DOMImplementation\n open val URL: String\n open val
documentURI: String\n open val origin: String\n open val compatMode: String\n open val characterSet:
String\n open val charset: String\n open val inputEncoding: String\n open val contentType: String\n open val
doctype: DocumentType?\n open val documentElement: Element?\n open val location: Location?\n var
domain: String\n open val referrer: String\n var cookie: String\n open val lastModified: String\n open val
readyState: DocumentReadyState\n var title: String\n var dir: String\n var body: HTMLElement?\n open val
head: HTMLHeadElement?\n open val images: HTMLCollection\n open val embeds: HTMLCollection\n open
val plugins: HTMLCollection\n open val links: HTMLCollection\n open val forms: HTMLCollection\n open
val scripts: HTMLCollection\n open val currentScript: HTMLScriptElement?\n open val defaultView:
Window?\n open val activeElement: Element?\n var designMode: String\n var onreadystatechange: ((Event) ->
dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor: String\n var alinkColor: String\n
var bgColor: String\n open val anchors: HTMLCollection\n open val applets: HTMLCollection\n open val all:
HTMLAllCollection\n open val scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val
rootElement: SVGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var
onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var
onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel:
((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough:
((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) ->
dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override
var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->

```



```

dynamic)?\n override var onPause: ((Event) -> dynamic)?\n override var onPlay: ((Event) -> dynamic)?\n
override var onPlaying: ((Event) -> dynamic)?\n override var onProgress: ((ProgressEvent) -> dynamic)?\n
override var onRateChange: ((Event) -> dynamic)?\n override var onReset: ((Event) -> dynamic)?\n override var
onResize: ((Event) -> dynamic)?\n override var onScroll: ((Event) -> dynamic)?\n override var onSeeked:
((Event) -> dynamic)?\n override var onSeeking: ((Event) -> dynamic)?\n override var onSelect: ((Event) ->
dynamic)?\n override var onShow: ((Event) -> dynamic)?\n override var onStalled: ((Event) -> dynamic)?\n
override var onSubmit: ((Event) -> dynamic)?\n override var onSuspend: ((Event) -> dynamic)?\n override var
onTimeUpdate: ((Event) -> dynamic)?\n override var onToggle: ((Event) -> dynamic)?\n override var
onVolumeChange: ((Event) -> dynamic)?\n override var onWaiting: ((Event) -> dynamic)?\n override var
onGotPointerCapture: ((PointerEvent) -> dynamic)?\n override var onLostPointerCapture: ((PointerEvent) ->
dynamic)?\n override var onPointerDown: ((PointerEvent) -> dynamic)?\n override var onPointerMove:
((PointerEvent) -> dynamic)?\n override var onPointerUp: ((PointerEvent) -> dynamic)?\n override var
onPointerCancel: ((PointerEvent) -> dynamic)?\n override var onPointerOver: ((PointerEvent) -> dynamic)?\n
override var onPointerOut: ((PointerEvent) -> dynamic)?\n override var onPointerEnter: ((PointerEvent) ->
dynamic)?\n override var onPointerLeave: ((PointerEvent) -> dynamic)?\n override var onCopy:
((ClipboardEvent) -> dynamic)?\n override var onCut: ((ClipboardEvent) -> dynamic)?\n override var onPaste:
((ClipboardEvent) -> dynamic)?\n override val fullscreenElement: Element?\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
override val childElementCount: Int\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\n
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun
getElementsByTagName(className: String): HTMLCollection\n fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n fun
createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun
createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun
createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun
getElementsByTagName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun
close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun
execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally):
Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun
queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String):
Boolean\n fun queryCommandSupported(commandId: String): Boolean\n fun
queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n
fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double):
Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun createTouch(view:
Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n fun
createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun
getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun
append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun

```

```

querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
 }\n\n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n @kotlin.internal.InlineOnly\n public inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n /**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\n public external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n @kotlin.internal.InlineOnly\n public inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n val o = js(\"({})\")\n o[\"is\"] = `is`\n return o\n }\n\n /**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n *\n public external
abstract class DOMImplementation {\n fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?, qualifiedName:
String, doctype: DocumentType? = definedExternally): XMLDocument\n fun createHTMLDocument(title: String
= definedExternally): Document\n fun hasFeature(): Boolean\n }\n\n /**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n *\n public external
abstract class DocumentType : Node, ChildNode {\n open val name: String\n open val publicId: String\n open
val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n @kotlin.internal.InlineOnly\n public inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n val o = js(\"({})\")\n o[\"is\"] = `is`\n return o\n }\n\n /**\n *
Exposes the JavaScript

```

```

 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n *\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
override val childElementCount: Int\n override fun getElementById(elementId: String): Element?\n override fun
prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun
querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n *\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n open val mode: ShadowRootMode\n
open val host: Element\n override val fullscreenElement: Element?\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n *\npublic external abstract class
Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n open val namespaceURI: String?\n open val prefix: String?\n open
val localName: String\n open val tagName: String\n open var id: String\n open var className: String\n open
val classList: DOMTokenList\n open var slot: String\n open val attributes: NamedNodeMap\n open val
shadowRoot: ShadowRoot?\n open var scrollTop: Double\n open var scrollLeft: Double\n open val
scrollWidth: Int\n open val scrollHeight: Int\n open val clientTop: Int\n open val clientLeft: Int\n open val
clientWidth: Int\n open val clientHeight: Int\n open var innerHTML: String\n open var outerHTML: String\n
fun hasAttributes(): Boolean\n fun getAttributeNames(): Array<String>\n fun getAttribute(qualifiedName:
String): String?\n fun getAttributeNS(namespace: String?, localName: String): String?\n fun
setAttribute(qualifiedName: String, value: String)\n fun setAttributeNS(namespace: String?, qualifiedName:
String, value: String)\n fun removeAttribute(qualifiedName: String)\n fun removeAttributeNS(namespace:
String?, localName: String)\n fun hasAttribute(qualifiedName: String): Boolean\n fun
hasAttributeNS(namespace: String?, localName: String): Boolean\n fun getAttributeNode(qualifiedName: String):
Attr?\n fun getAttributeNodeNS(namespace: String?, localName: String): Attr?\n fun setAttributeNode(attr:
Attr): Attr?\n fun setAttributeNodeNS(attr: Attr): Attr?\n fun removeAttributeNode(attr: Attr): Attr\n fun
attachShadow(init: ShadowRootInit): ShadowRoot\n fun closest(selectors: String): Element?\n fun

```

```

matches(selectors: String): Boolean\n fun webkitMatchesSelector(selectors: String): Boolean\n fun
getElementsByTagName(qualifiedName: String): HTMLCollection\n fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun
getElementsByClassName(classNames: String): HTMLCollection\n fun insertAdjacentElement(where: String,
element: Element): Element?\n fun insertAdjacentText(where: String, data: String)\n fun getClientRects():
Array<DOMRect>\n fun getBoundingClientRect(): DOMRect\n fun scrollIntoView()\n fun
scrollIntoView(arg: dynamic)\n fun scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double,
y: Double)\n fun scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n
fun scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun
insertAdjacentHTML(position: String, text: String)\n fun setPointerCapture(pointerId: Int)\n fun
releasePointerCapture(pointerId: Int)\n fun hasPointerCapture(pointerId: Int): Boolean\n fun requestFullscreen():
Promise<Unit>\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n\npublic external interface
ShadowRootInit {\n var mode: ShadowRootMode?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n val o = js(\"({})\")\n o[\"mode\"] = mode\n return o\n}\n\n/**\n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n */\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n fun
getNamedItemNS(namespace: String?, localName: String): Attr?\n fun setNamedItem(attr: Attr): Attr?\n fun
setNamedItemNS(attr: Attr): Attr?\n fun removeNamedItem(qualifiedName: String): Attr\n fun
removeNamedItemNS(namespace: String?, localName: String): Attr\n override fun item(index: Int): Attr?\n fun
getNamedItem(qualifiedName: String): Attr?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external abstract class
Attr : Node {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n
open val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified:
Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n open var data: String\n open

```

```

val length: Int
fun substringData(offset: Int, count: Int): String
fun appendData(data: String)
fun insertData(offset: Int, data: String)
fun deleteData(offset: Int, count: Int)
fun replaceData(offset: Int, count: Int, data: String)

companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin
 * public external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {
 open val wholeText: String
 override val assignedSlot: HTMLSlotElement?
 override val previousElementSibling: Element?
 override val nextElementSibling: Element?
 fun splitText(offset: Int): Text
 override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
 override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
 override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
 override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
 override fun before(vararg nodes: dynamic)
 override fun after(vararg nodes: dynamic)
 override fun replaceWith(vararg nodes: dynamic)
 override fun remove()
}

companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 * public external open class CDATASection : Text {
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

/** Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin
 * public external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {
 open val target: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 }
}

```

```

Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n *\npublic external open class
Comment(data: String = definedExternally) : CharacterData {\n override val previousElementSibling: Element?\n
 override val nextElementSibling: Element?\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n *\npublic external open class Range {\n
 open val startContainer: Node\n open val startOffset: Int\n open val endContainer: Node\n open val
endOffset: Int\n open val collapsed: Boolean\n open val commonAncestorContainer: Node\n fun setStart(node:
Node, offset: Int)\n fun setEnd(node: Node, offset: Int)\n fun setStartBefore(node: Node)\n fun
setStartAfter(node: Node)\n fun setEndBefore(node: Node)\n fun setEndAfter(node: Node)\n fun
collapse(toStart: Boolean = definedExternally)\n fun selectNode(node: Node)\n fun selectNodeContents(node:
Node)\n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\n fun deleteContents()\n fun
extractContents(): DocumentFragment\n fun cloneContents(): DocumentFragment\n fun insertNode(node:
Node)\n fun surroundContents(newParent: Node)\n fun cloneRange(): Range\n fun detach()\n fun
isPointInRange(node: Node, offset: Int): Boolean\n fun comparePoint(node: Node, offset: Int): Short\n fun
intersectsNode(node: Node): Boolean\n fun getClientRects(): Array<DOMRect>\n fun
getBoundingClientRect(): DOMRect\n fun createContextualFragment(fragment: String): DocumentFragment\n\n
companion object {\n val START_TO_START: Short\n val START_TO_END: Short\n val
END_TO_END: Short\n val END_TO_START: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n *\npublic external abstract
class NodeIterator {\n open val root: Node\n open val referenceNode: Node\n open val
pointerBeforeReferenceNode: Boolean\n open val whatToShow: Int\n open val filter: NodeFilter?\n fun
nextNode(): Node?\n fun previousNode(): Node?\n fun detach()\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n *\npublic external abstract
class TreeWalker {\n open val root: Node\n open val whatToShow: Int\n open val filter: NodeFilter?\n open
var currentNode: Node\n fun parentNode(): Node?\n fun firstChild(): Node?\n fun lastChild(): Node?\n fun
previousSibling(): Node?\n fun nextSibling(): Node?\n fun previousNode(): Node?\n fun nextNode():
Node?\n}\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface NodeFilter {\n
 fun acceptNode(node: Node): Short\n\n companion object {\n val FILTER_ACCEPT: Short\n val
FILTER_REJECT: Short\n val FILTER_SKIP: Short\n val SHOW_ALL: Int\n val
SHOW_ELEMENT: Int\n val SHOW_ATTRIBUTE: Int\n val SHOW_TEXT: Int\n val

```

```

SHOW_CDATA_SECTION: Int\n val SHOW_ENTITY_REFERENCE: Int\n val SHOW_ENTITY: Int\n val SHOW_PROCESSING_INSTRUCTION: Int\n val SHOW_COMMENT: Int\n val
SHOW_DOCUMENT: Int\n val SHOW_DOCUMENT_TYPE: Int\n val
SHOW_DOCUMENT_FRAGMENT: Int\n val SHOW_NOTATION: Int\n } \n} \n \n /** \n * Exposes the
JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin \n * \n public
external abstract class DOMTokenList : ItemArrayLike<String> { \n open var value: String \n fun contains(token:
String): Boolean \n fun add(vararg tokens: String) \n fun remove(vararg tokens: String) \n fun toggle(token:
String, force: Boolean = definedExternally): Boolean \n fun replace(token: String, newToken: String) \n fun
supports(token: String): Boolean \n override fun item(index: Int):
String? \n} \n} \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun DOMTokenList.get(index:
Int): String? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin \n * \n public
external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) { \n open val x: Double \n
 open val y: Double \n open val z: Double \n open val w: Double \n fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint \n} \n \n /** \n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin \n * \n public external open class
DOMPoint : DOMPointReadOnly { \n constructor(point: DOMPointInit) \n constructor(x: Double =
definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally) \n
 override var x: Double \n override var y: Double \n override var z: Double \n override var w:
Double \n} \n \n /** \n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin \n * \n public external
interface DOMPointInit { \n var x: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var y: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var z: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var w: Double? /* = 1.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun DOMPointInit(x: Double? = 0.0, y:
Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit { \n val o = js("{}") \n o["x"] = x \n
 o["y"] = y \n o["z"] = z \n o["w"] = w \n return o \n} \n \n /** \n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin \n * \n public external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,
height: Double = definedExternally) : DOMRectReadOnly { \n override var x: Double \n override var y: Double \n
 override var width: Double \n override var height: Double \n} \n \n /** \n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin \n * \n public
external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) { \n open val x:
Double \n open val y: Double \n open val width: Double \n open val height: Double \n open val top: Double \n
 open val right: Double \n open val bottom: Double \n open val left: Double \n} \n \n public external interface
DOMRectInit { \n var x: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var y: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var width: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n var height: Double? /* = 0.0 */ \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun DOMRectInit(x: Double? = 0.0, y:
Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit { \n val o = js("{}") \n o["x"] =
x \n o["y"] = y \n o["width"] = width \n o["height"] = height \n return o \n} \n \n public external interface
DOMRectList : ItemArrayLike<DOMRect> { \n override fun item(index: Int):
DOMRect? \n} \n} \n @Suppress("INVISIBLE_REFERENCE",

```

```

\ "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline operator fun DOMRectList.get(index: Int):
DOMRect? = asDynamic()[index]\n\n /**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n\n *\n\n public external open class
DOMQuad {\n constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n open val p2: DOMPoint\n open val p3: DOMPoint\n open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n /**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n\n
*\n\n public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n open val a: Double\n
open val b: Double\n open val c: Double\n open val d: Double\n open val e: Double\n open val f: Double\n
open val m11: Double\n open val m12: Double\n open val m13: Double\n open val m14: Double\n open val
m21: Double\n open val m22: Double\n open val m23: Double\n open val m24: Double\n open val m31:
Double\n open val m32: Double\n open val m33: Double\n open val m34: Double\n open val m41: Double\n
open val m42: Double\n open val m43: Double\n open val m44: Double\n open val is2D: Boolean\n open
val isIdentity: Boolean\n fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n
fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ:
Double = definedExternally): DOMMatrix\n fun scaleNonUniform(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotate(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVector(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewX(sx: Double): DOMMatrix\n fun skewY(sy: Double): DOMMatrix\n fun
multiply(other: DOMMatrix): DOMMatrix\n fun flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun
inverse(): DOMMatrix\n fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n fun
toFloat32Array(): Float32Array\n fun toFloat64Array(): Float64Array\n}\n\n /**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n\n *\n\n public external open
class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList: String)\n constructor(other:
DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n override var a: Double\n override var b: Double\n override
var c: Double\n override var d: Double\n override var e: Double\n override var f: Double\n override var m11:
Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var
m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override
var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n
override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44:
Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix):
DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun
scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun
invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\n public external
interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n @Suppress("INVISIBLE_REFERENCE",

```



```

\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior:
ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js(\`(\{\})\`) \n o[\`behavior\`] = behavior\n
return o\n}\n\n\`*\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n *\n\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? =
undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n
val o = js(\`(\{\})\`) \n o[\`left\`] = left\n o[\`top\`] = top\n o[\`behavior\`] = behavior\n return o\n}\n\n\`*\n
 * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to
Kotlin\n *\n\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val
matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n\`*\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n
*\n\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
 val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var
media: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var matches:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media:
String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): MediaQueryListEventInit {\n val o = js(\`(\{\})\`) \n o[\`media\`] = media\n o[\`matches\`] =
matches\n o[\`bubbles\`] = bubbles\n o[\`cancelable\`] = cancelable\n o[\`composed\`] = composed\n return
o\n}\n\n\`*\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n
*\n\npublic external abstract class Screen {\n open val availWidth: Int\n open val availHeight: Int\n open val
width: Int\n open val height: Int\n open val colorDepth: Int\n open val pixelDepth: Int\n}\n\n\`*\n * Exposes
the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n *\n\npublic
external abstract class CaretPosition {\n open val offsetNode: Node\n open val offset: Int\n fun
getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() = definedExternally\n set(value) =
definedExternally\n var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? =
ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n
val o = js(\`(\{\})\`) \n o[\`block\`] = block\n o[\`inline\`] = inline\n o[\`behavior\`] = behavior\n return
o\n}\n\npublic external interface BoxQuadOptions {\n var box: CSSBoxType? /* = CSSBoxType.BORDER */\n get() =
definedExternally\n set(value) = definedExternally\n var relativeTo: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\`INVISIBLE_REFERENCE\`),
\`INVISIBLE_MEMBER\`)@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType?
= CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n val o = js(\`(\{\})\`) \n o[\`box\`] =
box\n o[\`relativeTo\`] = relativeTo\n return o\n}\n\npublic external interface
ConvertCoordinateOptions {\n var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n get() =
definedExternally\n set(value) = definedExternally\n var toBox: CSSBoxType? /* = CSSBoxType.BORDER

```

```

*/\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConvertCoordinateOptions(fromBox:
CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER):
ConvertCoordinateOptions {\n val o = js(\"({})\")\n o[\"fromBox\"] = fromBox\n o[\"toBox\"] = toBox\n return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external
interface GeometryUtils {\n fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad>\n fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions =
definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\npublic external abstract class Touch
{\n open val identifier: Int\n open val target: EventTarget\n open val screenX: Int\n open val screenY: Int\n
open val clientX: Int\n open val clientY: Int\n open val pageX: Int\n open val pageY: Int\n open val region:
String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n override fun item(index: Int):
Touch?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int):
Touch? = asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n open val touches:
TouchList\n open val targetTouches: TouchList\n open val changedTouches: TouchList\n open val altKey:
Boolean\n open val metaKey: Boolean\n open val ctrlKey: Boolean\n open val shiftKey: Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET:
Short\n val BUBBLING_PHASE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\n override var
onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel:
((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough:
((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) ->
dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override
var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n

```

```

override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:
((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val
firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n
 override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val
assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg
nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n override var onabort: ((Event) -> dynamic)?\n
 override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var
oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var
onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose:
((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange:
((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag:
((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter:
((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave:
((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart:
((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange:

```

```

((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) ->
dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus:
((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid:
((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress:
((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload:
((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata:
((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart:
((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var
onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) ->
dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent)
-> dynamic)?\n override var onwheel: ((WheelEvent) -> dynamic)?\n override var onpause: ((Event) ->
dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n
override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n
override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var
onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking:
((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) ->
dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override
var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var
onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) ->
dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup:
((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var
onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n
override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) ->
dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) ->
dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n
override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
override val childElementCount: Int\n override val previousElementSibling: Element?\n override val
nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg
nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String):
Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes:
dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val NETWORK_EMPTY: Short\n val
NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n
 val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA:
Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

```

DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript  
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n \*\npublic external open class  
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =  
definedExternally, selected: Boolean = definedExternally) : HTMLElement {\n override var onabort:  
((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) ->  
dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) ->  
dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->  
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->  
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->  
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->  
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->  
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->  
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->  
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->  
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,  
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -  
> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->  
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:  
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:  
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:  
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:  
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var  
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n  
override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->  
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->  
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n  
override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n  
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var  
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:  
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->  
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n  
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var  
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var  
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var  
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->  
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:  
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var  
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n  
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->  
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:  
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:  
((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:  
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val  
firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n

```

 override val previousElementSibling: Element?
 override val nextElementSibling: Element?
 override val assignedSlot: HTMLSlotElement?
 override fun prepend(vararg nodes: dynamic)
 override fun append(vararg nodes: dynamic)
 override fun querySelector(selectors: String): Element?
 override fun querySelectorAll(selectors: String): NodeList
 override fun before(vararg nodes: dynamic)
 override fun after(vararg nodes: dynamic)
 override fun replaceWith(vararg nodes: dynamic)
 override fun remove()
 override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
 override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
 override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
 override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

public external interface UnionElementOrHTMLCollection
public external interface UnionElementOrRadioNodeList
public external interface UnionHTMLOptGroupElementOrHTMLOptionElement
public external interface UnionAudioTrackOrTextTrackOrVideoTrack
public external interface UnionElementOrMouseEvent
public external interface UnionMessagePortOrWindowProxy
public external interface MediaProvider
public external interface RenderingContext
public external interface HTMLOrSVGImageElement : CanvasImageSource
public external interface CanvasImageSource : ImageBitmapSource
public external interface ImageBitmapSource
public external interface HTMLOrSVGScriptElement

/* please, don't implement this interface! */
@JsName("")@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface DocumentReadyState {
 companion object {
 val DocumentReadyState.Companion.LOADING: DocumentReadyState get() = "loading".asDynamic().unsafeCast<DocumentReadyState>()
 val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() = "interactive".asDynamic().unsafeCast<DocumentReadyState>()
 val DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() = "complete".asDynamic().unsafeCast<DocumentReadyState>()
 }
}

/* please, don't implement this interface! */
@JsName("")@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanPlayTypeResult {
 companion object {
 val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() = ""
 val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()
 val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()
 }
}

/* please, don't implement this interface! */
@JsName("")@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackMode {
 companion object {
 val TextTrackMode.Companion.DISABLED: TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()
 val TextTrackMode.Companion.HIDDEN: TextTrackMode get() = "hidden".asDynamic().unsafeCast<TextTrackMode>()
 }
}

```

```

TextTrackMode.Companion.SHOWING: TextTrackMode get() =
`showing`.asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface TextTrackKind {\n companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = `subtitles`.asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
`captions`.asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
`descriptions`.asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
`chapters`.asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
`metadata`.asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface SelectionMode {\n companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = `select`.asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.START: SelectionMode get() =
`start`.asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = `end`.asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
`preserve`.asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface CanvasFillRule {\n companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = `nonzero`.asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
`evenodd`.asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface ImageSmoothingQuality {\n companion object\n}\n\npublic inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
`low`.asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
`medium`.asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
`high`.asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface CanvasLineCap {\n companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = `butt`.asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
`round`.asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = `square`.asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this
interface! *\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic
external interface CanvasLineJoin {\n companion object\n}\n\npublic inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
`round`.asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = `bevel`.asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
`miter`.asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external

```

```

interface CanvasTextAlign {
 companion object
}

public inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val
CanvasTextAlign.Companion.END: CanvasTextAlign get() =
"end".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = "left".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
"right".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
"center".asDynamic().unsafeCast<CanvasTextAlign>()

n/* please, don't implement this interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external
interface CanvasTextBaseline {
 companion object
}

public inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = "top".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
"hanging".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
"middle".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
"alphabetic".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
"ideographic".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
"bottom".asDynamic().unsafeCast<CanvasTextBaseline>()

n/* please, don't implement this interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external
interface CanvasDirection {
 companion object
}

public inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = "ltr".asDynamic().unsafeCast<CanvasDirection>()

public inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
"rtl".asDynamic().unsafeCast<CanvasDirection>()

public inline val CanvasDirection.Companion.INHERIT:
CanvasDirection get() = "inherit".asDynamic().unsafeCast<CanvasDirection>()

n/* please, don't implement this
interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external interface ScrollRestoration {
 companion object
}

public inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
"auto".asDynamic().unsafeCast<ScrollRestoration>()

public inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
"manual".asDynamic().unsafeCast<ScrollRestoration>()

n/* please, don't implement this interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external
interface ImageOrientation {
 companion object
}

public inline val ImageOrientation.Companion.NONE:
ImageOrientation get() = "none".asDynamic().unsafeCast<ImageOrientation>()

public inline val
ImageOrientation.Companion.FLIPY: ImageOrientation get() =
"flipY".asDynamic().unsafeCast<ImageOrientation>()

n/* please, don't implement this interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external
interface PremultiplyAlpha {
 companion object
}

public inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = "none".asDynamic().unsafeCast<PremultiplyAlpha>()

public inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
"premultiply".asDynamic().unsafeCast<PremultiplyAlpha>()

public inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
"default".asDynamic().unsafeCast<PremultiplyAlpha>()

n/* please, don't implement this interface!
*/

@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external
interface ColorSpaceConversion {
 companion object
}

```



```

ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
 \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
 \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ResizeQuality {\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.LOW: ResizeQuality get() =
 \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface BinaryType {\n companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
 \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface WorkerType {\n companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:
WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val
WorkerType.Companion.MODULE: WorkerType get() =
 \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ShadowRootMode {\n companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
 \"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ScrollBehavior {\n companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
 \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! *\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface ScrollLogicalPosition {\n companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
 \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
 \"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
 \"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
 \"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CSSBoxType {\n companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
 \"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:

```

```

CSSBoxType get() = "padding".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
"content".asDynamic().unsafeCast<CSSBoxType>()"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n/ NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n/
See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n fun append(name: String, value: String)\n fun delete(name:
String)\n fun get(name: String): String?\n fun has(name: String): Boolean\n fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n\npublic external interface Body {\n val bodyUsed: Boolean\n fun arrayBuffer():
Promise<ArrayBuffer>\n fun blob(): Promise<Blob>\n fun formData(): Promise<FormData>\n fun json():
Promise<Any?>\n fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n\npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n open val method: String\n open val
url: String\n open val headers: Headers\n open val type: RequestType\n open val destination:
RequestDestination\n open val referrer: String\n open val referrerPolicy: dynamic\n open val mode:
RequestMode\n open val credentials: RequestCredentials\n open val cache: RequestCache\n open val redirect:
RequestRedirect\n open val integrity: String\n open val keepalive: Boolean\n override val bodyUsed:
Boolean\n fun clone(): Request\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob():
Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n override
fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n var method: String?\n get() =
definedExternally\n set(value) = definedExternally\n var headers: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var body: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n var referrer: String?\n get() = definedExternally\n set(value) =
definedExternally\n var referrerPolicy: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var mode: RequestMode?\n get() = definedExternally\n set(value) =
definedExternally\n var credentials: RequestCredentials?\n get() = definedExternally\n set(value) =
definedExternally\n var cache: RequestCache?\n get() = definedExternally\n set(value) =
definedExternally\n var redirect: RequestRedirect?\n get() = definedExternally\n set(value) =
definedExternally\n var integrity: String?\n get() = definedExternally\n set(value) = definedExternally\n
var keepalive: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var window:
Any?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RequestInit(method: String? =
undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy:
dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache:
RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive:
Boolean? = undefined, window: Any? = undefined): RequestInit {\n val o = js("{}")\n o["method"] =
method\n o["headers"] = headers\n o["body"] = body\n o["referrer"] = referrer\n o["referrerPolicy"] =
referrerPolicy\n o["mode"] = mode\n o["credentials"] = credentials\n o["cache"] = cache\n o["redirect"]
= redirect\n o["integrity"] = integrity\n o["keepalive"] = keepalive\n o["window"] = window\n return
o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to
Kotlin\n\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit =
definedExternally) : Body {\n open val type: ResponseType\n open val url: String\n open val redirected:
Boolean\n open val status: Short\n open val ok: Boolean\n open val statusText: String\n open val headers:
Headers\n open val body: dynamic\n open val trailer: Promise<Headers>\n override val bodyUsed: Boolean\n

```

```

fun clone(): Response\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob():
Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n
override fun text(): Promise<String>\n\n companion object {\n fun error(): Response\n fun redirect(url:
String, status: Short = definedExternally): Response\n }\n\n public external interface ResponseInit {\n var
status: Short? /* = 200 */\n get() = definedExternally\n set(value) = definedExternally\n var statusText:
String? /* = \"OK\" */\n get() = definedExternally\n set(value) = definedExternally\n var headers:
dynamic\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n @kotlin.internal.InlineOnly\n public inline fun ResponseInit(status: Short? = 200,
statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\n val o = js(\"({})\")\n o[\"status\"]
= status\n o[\"statusText\"] = statusText\n o[\"headers\"] = headers\n return o\n }\n\n /* please, don't implement
this interface! */\n @JsName(\"null\")\n @Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n public external
interface RequestType {\n companion object\n }\n\n public inline val RequestType.Companion.EMPTY:
RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\n\n public inline val
RequestType.Companion.AUDIO: RequestType get() =
\"audio\".asDynamic().unsafeCast<RequestType>()\n\n public inline val RequestType.Companion.FONT:
RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\n public inline val
RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\n public inline val RequestType.Companion.SCRIPT:
RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\n public inline val
RequestType.Companion.STYLE: RequestType get() =
\"style\".asDynamic().unsafeCast<RequestType>()\n\n public inline val RequestType.Companion.TRACK:
RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\n public inline val
RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n /*
please, don't implement this interface!
*/\n @JsName(\"null\")\n @Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n public external
interface RequestDestination {\n companion object\n }\n\n public inline val
RequestDestination.Companion.EMPTY: RequestDestination get() =
\"\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\n public inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =

```

```

"serviceworker".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
"sharedworker".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
"style".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
"worker".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
"xslt".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface RequestMode {\n companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-
origin".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = "cors".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface RequestCredentials {\n companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = "same-
origin".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
"include".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface RequestCache {\n companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:
RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = "no-
store".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_CACHE: RequestCache get() = "no-
cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-
cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-
cached".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface RequestRedirect {\n companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW:
RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.ERROR: RequestRedirect get() =
"error".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL:
RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this
interface! *\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic
external interface ResponseType {\n companion object\n}\n\npublic inline val ResponseType.Companion.BASIC:
ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.CORS: ResponseType get() =
"cors".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val

```

```

ResponseType.Companion.ERROR: ResponseType get() =
\"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
\"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()),\"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes
the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\n\npublic
external open class MediaStream() : EventTarget, MediaProvider {\n constructor(stream: MediaStream)\n
constructor(tracks: Array<MediaStreamTrack>)\n open val id: String\n open val active: Boolean\n var
onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n var onremovetrack: ((MediaStreamTrackEvent) ->
dynamic)?\n fun getAudioTracks(): Array<MediaStreamTrack>\n fun getVideoTracks():
Array<MediaStreamTrack>\n fun getTracks(): Array<MediaStreamTrack>\n fun getTrackById(trackId: String):
MediaStreamTrack?\n fun addTrack(track: MediaStreamTrack)\n fun removeTrack(track: MediaStreamTrack)\n
 fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n open val kind: String\n open val id: String\n open
val label: String\n open var enabled: Boolean\n open val muted: Boolean\n open var onmute: ((Event) ->
dynamic)?\n open var onunmute: ((Event) -> dynamic)?\n open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n open var onoverconstrained: ((Event) -> dynamic)?\n fun clone():
MediaStreamTrack\n fun stop()\n fun getCapabilities(): MediaTrackCapabilities\n fun getConstraints():
MediaTrackConstraints\n fun getSettings(): MediaTrackSettings\n fun applyConstraints(constraints:
MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints)
to Kotlin\n */\n\npublic external interface MediaTrackSupportedConstraints {\n var width: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var height: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var frameRate: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var facingMode: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var resizeMode: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var volume: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var sampleRate: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var sampleSize: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var latency: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var channelCount: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var deviceId: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var groupId: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,

```

```

deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {
 val o = js("{}")
 o["width"] = width
 o["height"] = height
 o["aspectRatio"] = aspectRatio
 o["frameRate"] = frameRate
 o["facingMode"] = facingMode
 o["resizeMode"] = resizeMode
 o["volume"] = volume
 o["sampleRate"] = sampleRate
 o["sampleSize"] = sampleSize
 o["echoCancellation"] = echoCancellation
 o["autoGainControl"] = autoGainControl
 o["noiseSuppression"] = noiseSuppression
 o["latency"] = latency
 o["channelCount"] = channelCount
 o["deviceId"] = deviceId
 o["groupId"] = groupId
 return o
}

public external interface MediaTrackCapabilities {
 var width: ULongRange?
 get() = definedExternally
 set(value) = definedExternally
 var height: ULongRange?
 get() = definedExternally
 set(value) = definedExternally
 var aspectRatio: DoubleRange?
 get() = definedExternally
 set(value) = definedExternally
 var frameRate: DoubleRange?
 get() = definedExternally
 set(value) = definedExternally
 var facingMode: Array<String>?
 get() = definedExternally
 set(value) = definedExternally
 var resizeMode: Array<String>?
 get() = definedExternally
 set(value) = definedExternally
 var volume: DoubleRange?
 get() = definedExternally
 set(value) = definedExternally
 var sampleRate: ULongRange?
 get() = definedExternally
 set(value) = definedExternally
 var sampleSize: ULongRange?
 get() = definedExternally
 set(value) = definedExternally
 var echoCancellation: Array<Boolean>?
 get() = definedExternally
 set(value) = definedExternally
 var autoGainControl: Array<Boolean>?
 get() = definedExternally
 set(value) = definedExternally
 var noiseSuppression: Array<Boolean>?
 get() = definedExternally
 set(value) = definedExternally
 var latency: DoubleRange?
 get() = definedExternally
 set(value) = definedExternally
 var channelCount: ULongRange?
 get() = definedExternally
 set(value) = definedExternally
 var deviceId: String?
 get() = definedExternally
 set(value) = definedExternally
 var groupId: String?
 get() = definedExternally
 set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackCapabilities(
 width: ULongRange? = undefined,
 height: ULongRange? = undefined,
 aspectRatio: DoubleRange? = undefined,
 frameRate: DoubleRange? = undefined,
 facingMode: Array<String>? = undefined,
 resizeMode: Array<String>? = undefined,
 volume: DoubleRange? = undefined,
 sampleRate: ULongRange? = undefined,
 sampleSize: ULongRange? = undefined,
 echoCancellation: Array<Boolean>? = undefined,
 autoGainControl: Array<Boolean>? = undefined,
 noiseSuppression: Array<Boolean>? = undefined,
 latency: DoubleRange? = undefined,
 channelCount: ULongRange? = undefined,
 deviceId: String? = undefined,
 groupId: String? = undefined): MediaTrackCapabilities {
 val o = js("{}")
 o["width"] = width
 o["height"] = height
 o["aspectRatio"] = aspectRatio
 o["frameRate"] = frameRate
 o["facingMode"] = facingMode
 o["resizeMode"] = resizeMode
 o["volume"] = volume
 o["sampleRate"] = sampleRate
 o["sampleSize"] = sampleSize
 o["echoCancellation"] = echoCancellation
 o["autoGainControl"] = autoGainControl
 o["noiseSuppression"] = noiseSuppression
 o["latency"] = latency
 o["channelCount"] = channelCount
 o["deviceId"] = deviceId
 o["groupId"] = groupId
 return o
}

/** Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin */
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
 var advanced: Array<MediaTrackConstraintSet>?
 get() = definedExternally
 set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackConstraints(
 advanced: Array<MediaTrackConstraintSet>? = undefined,
 width: dynamic = undefined,
 height: dynamic = undefined,
 aspectRatio: dynamic = undefined,
 frameRate: dynamic = undefined,
 facingMode: dynamic = undefined,
 resizeMode: dynamic = undefined,
 volume: dynamic = undefined,
 sampleRate: dynamic = undefined,
 sampleSize: dynamic = undefined,
 echoCancellation: dynamic = undefined,
 autoGainControl: dynamic = undefined,
 noiseSuppression: dynamic = undefined,
 latency: dynamic = undefined,
 channelCount: dynamic = undefined,
 deviceId: dynamic = undefined,
 groupId: dynamic = undefined): MediaTrackConstraints {
 val o = js("{}")
 o["advanced"] = advanced
 o["width"] = width
 o["height"] = height
 o["aspectRatio"] =

```

```

aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] =
resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n
o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n
o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n
o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\npublic external interface
MediaTrackConstraintSet {\n var width: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var height: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var aspectRatio: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var frameRate:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var resizeMode: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var volume: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n var sampleRate: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var echoCancellation: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var autoGainControl: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var noiseSuppression: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var latency: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var channelCount: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var deviceId:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var groupId: dynamic\n get()
= definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =
undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined,
sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined,
autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined,
channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):
MediaTrackConstraintSet {\n val o = js(\"{\}\")\n o[\"width\"] = width\n o[\"height\"] = height\n
o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n
o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n
o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] =
autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n
o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return
o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n *\npublic
external interface MediaTrackSettings {\n var width: Int?\n get() = definedExternally\n set(value) =
definedExternally\n var height: Int?\n get() = definedExternally\n set(value) = definedExternally\n
var aspectRatio: Double?\n get() = definedExternally\n set(value) = definedExternally\n var frameRate:
Double?\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: String?\n
get() = definedExternally\n set(value) = definedExternally\n var resizeMode: String?\n get() =
definedExternally\n set(value) = definedExternally\n var volume: Double?\n get() = definedExternally\n
set(value) = definedExternally\n var sampleRate: Int?\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: Int?\n get() = definedExternally\n set(value) = definedExternally\n
var echoCancellation: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var
autoGainControl: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var
noiseSuppression: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var latency:
Double?\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: Int?\n
get() = definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() =
definedExternally\n set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n

```

```

 set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n val o = js(\"({})\")\n
o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] =
frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n
o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] =
echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n
o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] =
groupId\n return o\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*/\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n open val track: MediaStreamTrack\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
 }\n\n public external interface MediaStreamTrackEventInit : EventInit {\n var track:
MediaStreamTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n open val error:
dynamic\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
 }\n\n public external interface
OverconstrainedErrorEventInit : EventInit {\n var error: dynamic /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\n val o = js(\"({})\")\n o[\"error\"] = error\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n
*/\npublic external
abstract class MediaDevices : EventTarget {\n open var ondevicechange: ((Event) -> dynamic)?\n fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n fun getSupportedConstraints():
MediaTrackSupportedConstraints\n fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n
*/\npublic
external abstract class MediaDeviceInfo {\n open val deviceId: String\n open val kind: MediaDeviceKind\n
open val label: String\n open val groupId: String\n fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo {\n fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin\n
/\npublic external interface MediaStreamConstraints {\n var video: dynamic / = false */\n get() =
definedExternally\n set(value) = definedExternally\n var audio: dynamic /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js(\"({})\")\n o[\"video\"] =
video\n o[\"audio\"] = audio\n return o\n}\n\npublic external interface ConstrainingPattern {\n var

```



```

onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun
applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n**\n * Exposes the
JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n *\npublic
external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var min: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? =
undefined, min: Double? = undefined): DoubleRange {\n val o = js("{}")\n o["max"] = max\n o["min"] =
min\n return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n var exact: Double?\n
 get() = definedExternally\n set(value) = definedExternally\n var ideal: Double?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double?
= undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined):
ConstrainDoubleRange {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] =
max\n o["min"] = min\n return o\n}\n\npublic external interface ULongRange {\n var max: Int?\n get() =
definedExternally\n set(value) = definedExternally\n var min: Int?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined,
min: Int? = undefined): ULongRange {\n val o = js("{}")\n o["max"] = max\n o["min"] = min\n return
o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n var exact: Int?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Int?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? =
undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n val o
= js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] = max\n o["min"] = min\n return
o\n}\n\n**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n *\npublic external interface ConstrainBooleanParameters {\n var exact: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Boolean?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n val o = js("{}")\n
o["exact"] = exact\n o["ideal"] = ideal\n return o\n}\n\n**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n *\npublic external interface ConstrainDOMStringParameters {\n var exact: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n return
o\n}\n\npublic external interface Capabilities\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n val o
= js("{}")\n return o\n}\n\npublic external interface Settings\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o =
js("{}")\n return o\n}\n\npublic external interface ConstraintSet\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
 val o = js("{}")\n return o\n}\n\npublic external interface Constraints : ConstraintSet {\n var advanced:

```

```

Array<ConstraintSet>? \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @Suppress(\ "INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints { \n val o = js(\ "{ }") \n o[\ "advanced"] = advanced \n
return o \n} \n \n /* please, don't implement this interface!
*\n @JsName(\ "null") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface MediaStreamTrackState { \n companion object \n} \n \n public inline val
MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() =
\ "live" .asDynamic().unsafeCast<MediaStreamTrackState>() \n \n public inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
\ "ended" .asDynamic().unsafeCast<MediaStreamTrackState>() \n \n /* please, don't implement this interface!
*\n @JsName(\ "null") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface VideoFacingModeEnum { \n companion object \n} \n \n public inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
\ "user" .asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
\ "environment" .asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
\ "left" .asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
\ "right" .asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n /* please, don't implement this interface!
*\n @JsName(\ "null") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface VideoResizeModeEnum { \n companion object \n} \n \n public inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
\ "none" .asDynamic().unsafeCast<VideoResizeModeEnum>() \n \n public inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \ "crop-and-
scale" .asDynamic().unsafeCast<VideoResizeModeEnum>() \n \n /* please, don't implement this interface!
*\n @JsName(\ "null") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface MediaDeviceKind { \n companion object \n} \n \n public inline val
MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() =
\ "audioinput" .asDynamic().unsafeCast<MediaDeviceKind>() \n \n public inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
\ "audiooutput" .asDynamic().unsafeCast<MediaDeviceKind>() \n \n public inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
\ "videoinput" .asDynamic().unsafeCast<MediaDeviceKind>()) , /* \n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file. \n * \n // NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT! \n // See github.com/kotlin/dukat for details \n \n package org.w3c.dom.mediasource \n \n import
kotlin.js.* \n import org.khronos.webgl.* \n import org.w3c.dom.* \n import org.w3c.dom.events.* \n \n /** \n * Exposes
the JavaScript [MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin \n * \n public
external open class MediaSource : EventTarget, MediaProvider { \n open val sourceBuffers: SourceBufferList \n
open val activeSourceBuffers: SourceBufferList \n open val readyState: ReadyState \n var duration: Double \n
var onsourceopen: ((Event) -> dynamic)? \n var onsourceended: ((Event) -> dynamic)? \n var onsourceclose:
((Event) -> dynamic)? \n fun addSourceBuffer(type: String): SourceBuffer \n fun
removeSourceBuffer(sourceBuffer: SourceBuffer) \n fun endOfStream(error: EndOfStreamError =
definedExternally) \n fun setLiveSeekableRange(start: Double, end: Double) \n fun clearLiveSeekableRange() \n
companion object { \n fun isTypeSupported(type: String): Boolean \n } \n} \n \n /** \n * Exposes the JavaScript
[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin \n * \n public external

```

```

abstract class SourceBuffer : EventTarget {\n open var mode: AppendMode\n open val updating: Boolean\n
open val buffered: TimeRanges\n open var timestampOffset: Double\n open val audioTracks: AudioTrackList\n
open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open var appendWindowStart:
Double\n open var appendWindowEnd: Double\n open var onupdatestart: ((Event) -> dynamic)?\n open var
onupdate: ((Event) -> dynamic)?\n open var onupdateend: ((Event) -> dynamic)?\n open var onerror: ((Event) ->
dynamic)?\n open var onabort: ((Event) -> dynamic)?\n fun appendBuffer(data: dynamic)\n fun abort()\n fun
remove(start: Double, end: Double)\n}\n\n/**\n * Exposes the JavaScript
[SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n */\npublic
external abstract class SourceBufferList : EventTarget {\n open val length: Int\n open var onaddsourcebuffer:
((Event) -> dynamic)?\n open var onremovesourcebuffer: ((Event) ->
dynamic)?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SourceBufferList.get(index:
Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface!
*\n */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ReadyState {\n companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState
get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN:
ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val
ReadyState.Companion.ENDED: ReadyState get() = \"ended\".asDynamic().unsafeCast<ReadyState>()\n\n/*
please, don't implement this interface!
*\n */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface EndOfStreamError {\n companion object\n}\n\npublic inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =
\"network\".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
\"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*\n */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface AppendMode {\n companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS:
AppendMode get() = \"segments\".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
\"sequence\".asDynamic().unsafeCast<AppendMode>()\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n/* NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n */\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface
PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n get() = definedExternally\n
set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var height: Double? /* = 1.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var pressure: Float? /* = 0f */\n get() = definedExternally\n set(value) =
definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() = definedExternally\n set(value) =
definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n
var tiltY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var twist: Int? /* =
0 */\n get() = definedExternally\n set(value) = definedExternally\n var pointerType: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var isPrimary: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0,
width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0,
tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? =

```

```

null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n val o =
js("{}")\n o["pointerId"] = pointerId\n o["width"] = width\n o["height"] = height\n o["pressure"] =
pressure\n o["tangentialPressure"] = tangentialPressure\n o["tiltX"] = tiltX\n o["tiltY"] = tiltY\n
o["twist"] = twist\n o["pointerType"] = pointerType\n o["isPrimary"] = isPrimary\n o["screenX"] =
screenX\n o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] =
button\n o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n
o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o}\n}\n\n/**\n * Exposes the JavaScript

```

```

[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val
pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val
tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val
pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n},"/*\n
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript

```

```

[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val
viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) =
definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE"),

```

```

\ "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"] = markers\n o["clipped"] = clipped\n return o\n }\n\n /**\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n */\n public external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform: SVGAnimatedTransformList\n fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\n fun getCTM(): DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n }\n\n /**\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n */\n public external abstract class SVGGeometryElement : SVGGraphicsElement {\n open val pathLength: SVGAnimatedNumber\n fun isPointInFill(point: DOMPoint): Boolean\n fun isPointInStroke(point: DOMPoint): Boolean\n fun getTotalLength(): Float\n fun getPointAtLength(distance: Float): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n }\n\n /**\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n */\n public external abstract class SVGNumber {\n open var value: Float\n }\n\n /**\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n */\n public external abstract class SVGLength {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits: Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val SVG_LENGTHTYPE_UNKNOWN: Short\n val SVG_LENGTHTYPE_NUMBER: Short\n val SVG_LENGTHTYPE_PERCENTAGE: Short\n val SVG_LENGTHTYPE_EMS: Short\n val SVG_LENGTHTYPE_EXS: Short\n val SVG_LENGTHTYPE_PX: Short\n val SVG_LENGTHTYPE_CM: Short\n val SVG_LENGTHTYPE_MM: Short\n val SVG_LENGTHTYPE_IN: Short\n val SVG_LENGTHTYPE_PT: Short\n val SVG_LENGTHTYPE_PC: Short\n }\n }\n\n /**\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n */\n public external abstract class SVGAngle {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits: Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n }\n }

```

```

SVG_ANGLETYPE_GRAD: Short\n } \n\npublic external abstract class SVGNameList {\n open val length:
Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun
insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int):
dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun
getItem(index: Int): dynamic\n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int):
dynamic = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem } \n\n/**\n * Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n */\npublic external
abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int):
SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int):
SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int):
SVGNumber\n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index:
Int, newItem: SVGNumber) { asDynamic()[index] = newItem } \n\n/**\n * Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n */\npublic external
abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int):
SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int):
SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int):
SVGLength\n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int,
newItem: SVGLength) { asDynamic()[index] = newItem } \n\n/**\n * Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n */\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal:
Boolean\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n */\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val
animVal: Short\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n */\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal:
Int\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n */\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal:
Float\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n */\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal:
SVGLength\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n */\npublic
external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal:
SVGAngle\n} \n\n/**\n * Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n */\npublic

```

```

external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)
to Kotlin\n */\n\npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val
animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
*/\n\npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val
animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
*/\n\npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val
animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript
[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n */\n\npublic external
abstract class SVGStringList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: String): String\n fun insertItemBefore(newItem: String, index: Int): String\n fun
replaceItem(newItem: String, index: Int): String\n fun removeItem(index: Int): String\n fun
appendItem(newItem: String): String\n fun getItem(index: Int):
String\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGStringList.get(index:
Int): String? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGStringList.set(index: Int,
newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface SVGUnitTypes
{\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n */\n\npublic external interface
SVGTTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val
SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val
SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\n\npublic
external interface SVGURIReference {\n val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\n\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val
width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open
val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?):
NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun
checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun
createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle():
SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun
createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun
createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun

```





```

Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*/\npublic external abstract class SVGMetadataElement : SVGElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n
*/\npublic
external abstract class SVGTitleElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n
*/\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*/\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n
open val height: SVGAnimatedLength\n open val instanceRoot: SVGElement?\n open val animatedInstanceRoot:
SVGElement?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

```

```

PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class
SVGUseElementShadowRoot : ShadowRoot {\n companion object {\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGElementInstance {\n val correspondingElement: SVGElement?\n get() = definedExternally\n val
correspondingUseElement: SVGUseElement?\n get() = definedExternally\n}\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n open val sourceAnimation: dynamic\n}\n}\n\n**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n *^\n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
GetSVGDocument {\n fun getSVGDocument(): Document\n}\n}\n\n**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n *^\n\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n open var type: String\n open var media:
String\n open var title: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n}\n\n**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n *^\n\npublic external
abstract class SVGTransform {\n open val type: Short\n open val matrix: DOMMatrix\n open val angle:
Float\n fun setMatrix(matrix: DOMMatrixReadOnly)\n fun setTranslate(tx: Float, ty: Float)\n fun setScale(sx:
Float, sy: Float)\n fun setRotate(angle: Float, cx: Float, cy: Float)\n fun setSkewX(angle: Float)\n fun

```



```

external abstract class SVGRectElement : SVGGeometryElement {
 open val x: SVGAnimatedLength
 open val y: SVGAnimatedLength
 open val width: SVGAnimatedLength
 open val height: SVGAnimatedLength
 open val rx: SVGAnimatedLength
 open val ry: SVGAnimatedLength
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short * Exposes the JavaScript
[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin
public
external abstract class SVGCircleElement : SVGGeometryElement {
 open val cx: SVGAnimatedLength
 open val cy: SVGAnimatedLength
 open val r: SVGAnimatedLength
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short * Exposes the JavaScript
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin
public
external abstract class SVGEllipseElement : SVGGeometryElement {
 open val cx: SVGAnimatedLength
 open val cy: SVGAnimatedLength
 open val rx: SVGAnimatedLength
 open val ry: SVGAnimatedLength
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin
public
external abstract class SVGLineElement : SVGGeometryElement {
 open val x1: SVGAnimatedLength
 open val y1: SVGAnimatedLength
 open val x2: SVGAnimatedLength
 open val y2: SVGAnimatedLength
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short * Exposes the JavaScript

```

[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n \*/\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n \*/\npublic external interface SVGAnimatedPoints {\n val points: SVGPointList\n val animatedPoints: SVGPointList\n}\n\npublic external abstract class SVGPointList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: DOMPoint): DOMPoint\n fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\n fun removeItem(index: Int): DOMPoint\n fun appendItem(newItem: DOMPoint): DOMPoint\n fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n \*/\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n \*/\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n \*/\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n open val textLength: SVGAnimatedLength\n open val lengthAdjust: SVGAnimatedEnumeration\n fun getNumberOfChars(): Int\n fun getComputedTextLength(): Float\n fun getSubStringLength(charnum: Int, nchars: Int): Float\n fun



```

PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n
*/\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open
val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing:
SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH_METHODTYPE_UNKNOWN:
Short\n val TEXTPATH_METHODTYPE_ALIGN: Short\n val
TEXTPATH_METHODTYPE_STRETCH: Short\n val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n
 val TEXTPATH_SPACINGTYPE_AUTO: Short\n val TEXTPATH_SPACINGTYPE_EXACT: Short\n
 val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n
*/\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLOrSVGImageElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open
val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n open var crossOrigin: String?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
Kotlin\n
*/\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

```

```

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGMarkerElement : SVGElement, SVGFitToViewBox {\n open val refX: SVGAnimatedLength\n open val
refY: SVGAnimatedLength\n open val markerUnits: SVGAnimatedEnumeration\n open val markerWidth:
SVGAnimatedLength\n open val markerHeight: SVGAnimatedLength\n open val orientType:
SVGAnimatedEnumeration\n open val orientAngle: SVGAnimatedAngle\n open var orient: String\n fun
setOrientToAuto()\n fun setOrientToAngle(angle: SVGAngle)\n\n companion object {\n val
SVG_MARKERUNITS_UNKNOWN: Short\n val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
val SVG_MARKERUNITS_STROKEWIDTH: Short\n val SVG_MARKER_ORIENT_UNKNOWN: Short\n
val SVG_MARKER_ORIENT_AUTO: Short\n val SVG_MARKER_ORIENT_ANGLE: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n
*\n\npublic external abstract class SVGSolidcolorElement : SVGElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*\n\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
open val gradientUnits: SVGAnimatedEnumeration\n open val gradientTransform: SVGAnimatedTransformList\n
open val spreadMethod: SVGAnimatedEnumeration\n\n companion object {\n val
SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val
SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val
SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

```



DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\n \*\n\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n open val x1: SVGAnimatedLength\n open val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val y2: SVGAnimatedLength\n\n companion object {\n val SVG\_SPREADMETHOD\_UNKNOWN: Short\n val SVG\_SPREADMETHOD\_PAD: Short\n val SVG\_SPREADMETHOD\_REFLECT: Short\n val SVG\_SPREADMETHOD\_REPEAT: Short\n val SVG\_UNIT\_TYPE\_UNKNOWN: Short\n val SVG\_UNIT\_TYPE\_USERSPACEONUSE: Short\n val SVG\_UNIT\_TYPE\_OBJECTBOUNDINGBOX: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\n \*\n\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n open val fx: SVGAnimatedLength\n open val fy: SVGAnimatedLength\n open val fr: SVGAnimatedLength\n\n companion object {\n val SVG\_SPREADMETHOD\_UNKNOWN: Short\n val SVG\_SPREADMETHOD\_PAD: Short\n val SVG\_SPREADMETHOD\_REFLECT: Short\n val SVG\_SPREADMETHOD\_REPEAT: Short\n val SVG\_UNIT\_TYPE\_UNKNOWN: Short\n val SVG\_UNIT\_TYPE\_USERSPACEONUSE: Short\n val SVG\_UNIT\_TYPE\_OBJECTBOUNDINGBOX: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\n companion object {\n val SVG\_SPREADMETHOD\_UNKNOWN: Short\n val SVG\_SPREADMETHOD\_PAD: Short\n val SVG\_SPREADMETHOD\_REFLECT: Short\n val SVG\_SPREADMETHOD\_REPEAT: Short\n val SVG\_UNIT\_TYPE\_UNKNOWN: Short\n val SVG\_UNIT\_TYPE\_USERSPACEONUSE: Short\n val SVG\_UNIT\_TYPE\_OBJECTBOUNDINGBOX: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\npublic external abstract class

```

SVGMeshrowElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n }\n}\n\npublic external abstract class SVGStopElement : SVGElement {\n open val offset: SVGAnimatedNumber\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n }\n}\n\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes {\n open val patternUnits: SVGAnimatedEnumeration\n open val patternContentUnits: SVGAnimatedEnumeration\n open val patternTransform: SVGAnimatedTransformList\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n }\n}\n\npublic external abstract class
SVGHatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n }\n}\n\npublic external abstract class

```

```

ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGHatchpathElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\npublic
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n
 open var type: String\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\n */\npublic external
abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\n open val target:
SVGAnimatedString\n open val download: SVGAnimatedString\n open val rel: SVGAnimatedString\n open
val relList: SVGAnimatedString\n open val hreflang: SVGAnimatedString\n open val type:
SVGAnimatedString\n\n companion object {\n val ELEMENT_NODE: Short\n val

```

```

ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin \n * \n public
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan { \n companion
object { \n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file. \n * \n \n // NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT! \n // See github.com/kotlin/dukat for details \n \n package org.w3c.files \n \n import
kotlin.js.* \n import org.khronos.webgl.* \n import org.w3c.dom.* \n import org.w3c.dom.events.* \n import
org.w3c.xhr.* \n \n /** \n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to
Kotlin \n * \n public external open class Blob(blobParts: Array<dynamic> = definedExternally, options:
BlobPropertyBag = definedExternally) : MediaProvider, ImageBitmapSource { \n open val size: Number \n open
val type: String \n open val isClosed: Boolean \n fun slice(start: Int = definedExternally, end: Int =
definedExternally, contentType: String = definedExternally): Blob \n fun close() \n} \n \n public external interface
BlobPropertyBag { \n var type: String? /* = \"\" */ \n fun get() = definedExternally \n fun set(value) =
definedExternally \n} \n \n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\") \n @kotlin.internal.InlineOnly \n public inline fun BlobPropertyBag(type: String? = \"\"):
BlobPropertyBag { \n val o = js(\"({})\") \n o[\"type\"] = type \n return o \n} \n \n /** \n * Exposes the JavaScript
[File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin \n * \n public external open class File(fileBits:
Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob { \n open val name:
String \n open val lastModified: Int \n} \n \n public external interface FilePropertyBag : BlobPropertyBag { \n var
lastModified: Int? \n fun get() = definedExternally \n fun set(value) =
definedExternally \n} \n \n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\") \n @kotlin.internal.InlineOnly \n public inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag { \n val o = js(\"({})\") \n o[\"lastModified\"] = lastModified \n
o[\"type\"] = type \n return o \n} \n \n /** \n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin \n * \n public external abstract class
FileList : ItemArrayLike<File> { \n override fun item(index: Int):
File? \n} \n \n @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\") \n @kotlin.internal.InlineOnly \n public inline operator fun FileList.get(index: Int): File?
= asDynamic()[index] \n \n /** \n * Exposes the JavaScript

```

[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n \*^npublic external open class FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error: dynamic\n var onloadstart: ((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n var onload: ((Event) -> dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onloadend: ((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob: Blob)\n fun readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n fun abort()\n\n companion object {\n val EMPTY: Short\n val LOADING: Short\n val DONE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n \*^npublic external open class FileReaderSync {\n fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n fun readAsBinaryString(blob: Blob): String\n fun readAsText(blob: Blob, label: String = definedExternally): String\n fun readAsDataURL(blob: Blob): String\n}\n\n/\*\*\n \* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*^n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.\*\nimport org.khronos.webgl.\*\nimport org.w3c.dom.events.\*\nimport org.w3c.workers.\*\n\n/\*\*\n \* Exposes the JavaScript

[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n \*^npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n var onclick: ((MouseEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n open val title: String\n open val dir: NotificationDirection\n open val lang: String\n open val body: String\n open val tag: String\n open val image: String\n open val icon: String\n open val badge: String\n open val sound: String\n open val vibrate: Array<out Int>\n open val timestamp: Number\n open val renotify: Boolean\n open val silent: Boolean\n open val noscreen: Boolean\n open val requireInteraction: Boolean\n open val sticky: Boolean\n open val data: Any?\n open val actions: Array<out NotificationAction>\n fun close()\n\n companion object {\n val permission: NotificationPermission\n val maxActions: Int\n fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n }\n}\n\npublic external interface NotificationOptions {\n var dir: NotificationDirection? /\* = NotificationDirection.AUTO \*/\n get() = definedExternally\n set(value) = definedExternally\n var lang: String? /\* = "" \*/\n get() = definedExternally\n set(value) = definedExternally\n var body: String? /\* = "" \*/\n get() = definedExternally\n set(value) = definedExternally\n var tag: String? /\* = "" \*/\n get() = definedExternally\n set(value) = definedExternally\n var image: String?\n get() = definedExternally\n set(value) = definedExternally\n var icon: String?\n get() = definedExternally\n set(value) = definedExternally\n var badge: String?\n get() = definedExternally\n set(value) = definedExternally\n var sound: String?\n get() = definedExternally\n set(value) = definedExternally\n var vibrate: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var timestamp: Number?\n get() = definedExternally\n set(value) = definedExternally\n var renotify: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var silent: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var noscreen: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var requireInteraction: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var sticky: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var data: Any? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var actions: Array<NotificationAction>? /\* = arrayOf() \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =

```

false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null,
actions: Array<NotificationAction>? = arrayOf(): NotificationOptions { \n val o = js("{}") \n o["dir"] = dir \n
o["lang"] = lang \n o["body"] = body \n o["tag"] = tag \n o["image"] = image \n o["icon"] = icon \n
o["badge"] = badge \n o["sound"] = sound \n o["vibrate"] = vibrate \n o["timestamp"] = timestamp \n
o["renotify"] = renotify \n o["silent"] = silent \n o["noscreen"] = noscreen \n o["requireInteraction"] =
requireInteraction \n o["sticky"] = sticky \n o["data"] = data \n o["actions"] = actions \n return
o \n } \n \n public external interface NotificationAction { \n var action: String? \n var title: String? \n var icon:
String? \n get() = definedExternally \n set(value) =
definedExternally \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun NotificationAction(action: String?,
title: String?, icon: String? = undefined): NotificationAction { \n val o = js("{}") \n o["action"] = action \n
o["title"] = title \n o["icon"] = icon \n return o \n } \n \n public external interface GetNotificationOptions { \n var
tag: String? /* = "" */ \n get() = definedExternally \n set(value) =
definedExternally \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun GetNotificationOptions(tag: String? =
""): GetNotificationOptions { \n val o = js("{}") \n o["tag"] = tag \n return o \n } \n \n /** \n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin \n
*/ \n public external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent { \n open val notification: Notification \n open val action: String \n \n companion object { \n
val NONE: Short \n val CAPTURING_PHASE: Short \n val AT_TARGET: Short \n val
BUBBLING_PHASE: Short \n } \n } \n \n public external interface NotificationEventInit : ExtendableEventInit { \n
var notification: Notification? \n var action: String? /* = "" */ \n get() = definedExternally \n set(value) =
definedExternally \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun NotificationEventInit(notification:
Notification?, action: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit { \n val o = js("{}") \n o["notification"] = notification \n o["action"] =
action \n o["bubbles"] = bubbles \n o["cancelable"] = cancelable \n o["composed"] = composed \n return
o \n } \n \n /* please, don't implement this interface!
*/ \n @JsName("null") \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface NotificationPermission { \n companion object \n } \n \n public inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
"default".asDynamic().unsafeCast<NotificationPermission>() \n \n public inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
"denied".asDynamic().unsafeCast<NotificationPermission>() \n \n public inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
"granted".asDynamic().unsafeCast<NotificationPermission>() \n \n /* please, don't implement this interface!
*/ \n @JsName("null") \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external
interface NotificationDirection { \n companion object \n } \n \n public inline val
NotificationDirection.Companion.AUTO: NotificationDirection get() =
"auto".asDynamic().unsafeCast<NotificationDirection>() \n \n public inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
"ltr".asDynamic().unsafeCast<NotificationDirection>() \n \n public inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
"rtl".asDynamic().unsafeCast<NotificationDirection>() \n \n /* \n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file. \n * \n \n // NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT! \n \n //
See github.com/kotlin/dukat for details \n \n package org.w3c.workers \n \n import kotlin.js.* \n import
org.khronos.webgl.* \n import org.w3c.dom.* \n import org.w3c.dom.events.* \n import org.w3c.fetch.* \n import

```

```

org.w3c.notifications.*\n\n**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n *\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n open val scriptURL: String\n open val state:
ServiceWorkerState\n open var onstatechange: ((Event) -> dynamic)?\n fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n *\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n open val installing:
ServiceWorker?\n open val waiting: ServiceWorker?\n open val active: ServiceWorker?\n open val scope:
String\n open var onupdatefound: ((Event) -> dynamic)?\n open val APISpace: dynamic\n fun update():
Promise<Unit>\n fun unregister(): Promise<Boolean>\n fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n fun methodName(): Promise<dynamic>\n}\n\n**\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n
*\npublic external abstract class ServiceWorkerContainer : EventTarget {\n open val controller:
ServiceWorker?\n open val ready: Promise<ServiceWorkerRegistration>\n open var oncontrollerchange:
((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n var scope: String?\n get() = definedExternally\n set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n val o = js(\"({})\")\n
o[\"scope\"] = scope\n o[\"type\"] = type\n return o\n}\n\n**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n *\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n open val data: Any?\n open val origin:
String\n open val lastEventId: String\n open val source: UnionMessagePortOrServiceWorker?\n open val
ports: Array<out MessagePort>?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n var data: Any?\n get() =
definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n
set(value) = definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o =
js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] =
source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n *\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n open val clients:

```

```

Clients\n open val registration: ServiceWorkerRegistration\n open var oninstall: ((Event) -> dynamic)?\n open
var onactivate: ((Event) -> dynamic)?\n open var onfetch: ((FetchEvent) -> dynamic)?\n open var
onforeignfetch: ((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n open var onnotificationclose: ((NotificationEvent) ->
dynamic)?\n open var onfunctionalevent: ((Event) -> dynamic)?\n fun skipWaiting():

```

Promise<Unit>\n}\n\n/\*\*\n \* Exposes the JavaScript

```

[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n *\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n open val url: String\n open val frameType: FrameType\n
open val id: String\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n *\npublic external abstract class WindowClient : Client {\n open val visibilityState: dynamic\n open
val focused: Boolean\n fun focus(): Promise<WindowClient>\n fun navigate(url: String):

```

Promise<WindowClient>\n}\n\n/\*\*\n \* Exposes the JavaScript

```

[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n *\npublic external abstract class
Clients {\n fun get(id: String): Promise<Any?>\n fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n fun openWindow(url: String): Promise<WindowClient?>\n fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n var includeUncontrolled:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var type:
ClientType? /* = ClientType.WINDOW */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):
ClientQueryOptions {\n val o = js(\"({})\")\n o[\"includeUncontrolled\"] = includeUncontrolled\n o[\"type\"] =
type\n return o\n}\n\n/**\n * Exposes the JavaScript

```

```

[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n *\npublic external
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n fun
waitUntil(f: Promise<Any?>)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
ExtendableEventInit : EventInit\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n val o =
js(\"({})\")\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript

```

```

[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n *\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n fun
registerForeignFetch(options: ForeignFetchOptions)\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ForeignFetchOptions {\n var scopes: Array<String>?\n var origins:
Array<String>?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes:
Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n val o = js(\"({})\")\n o[\"scopes\"] =
scopes\n o[\"origins\"] = origins\n return o\n}\n\n/**\n * Exposes the JavaScript

```

```

[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n *\npublic external open class
FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n open val request: Request\n open
val clientId: String?\n open val isReload: Boolean\n fun respondWith(r: Promise<Response>)\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n var
request: Request?\n var clientId: String? /* = null */\n get() = definedExternally\n set(value) =

```



```

definedExternally\n var isReload: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FetchEventInit(request: Request?,
clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): FetchEventInit {\n val o = js(\"({})\")\n o[\"request\"] = request\n o[\"clientId\"]
= clientId\n o[\"isReload\"] = isReload\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class ForeignFetchEvent(type: String,
eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n open val request: Request\n open val origin:
String\n fun respondWith(r: Promise<ForeignFetchResponse>)\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n var request:
Request?\n var origin: String? /* = \"null\" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request:
Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ForeignFetchEventInit {\n val o = js(\"({})\")\n o[\"request\"] = request\n o[\"origin\"] = origin\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o\n}\n\npublic external interface ForeignFetchResponse {\n var response: Response?\n var origin: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response:
Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n val o =
js(\"({})\")\n o[\"response\"] = response\n o[\"origin\"] = origin\n o[\"headers\"] = headers\n return
o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {\n open val data: Any?\n open val origin: String\n open val lastEventId:
String\n open val source: UnionClientOrMessagePortOrServiceWorker?\n open val ports: Array<out
MessagePort>?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
ExtendableMessageEventInit : ExtendableEventInit {\n var data: Any?\n get() = definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n set(value) =
definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionClientOrMessagePortOrServiceWorker?\n get() = definedExternally\n set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n val
o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n
*/\npublic external abstract class Cache
{\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun
matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests:
Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun

```

```

delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun
keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /*
= false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch:
Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] = ignoreSearch\n o[\"ignoreMethod\"] =
ignoreMethod\n o[\"ignoreVary\"] = ignoreVary\n o[\"cacheName\"] = cacheName\n return o\n}\n\npublic
external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) =
definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n
var response: Response?\n get() = definedExternally\n set(value) = definedExternally\n var options:
CacheQueryOptions?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n val o = js(\"({})\")\n o[\"type\"] = type\n o[\"request\"] = request\n
o[\"response\"] = response\n o[\"options\"] = options\n return o\n}\n\n/**\n * Exposes the JavaScript
[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):
Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys():
Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ServiceWorkerState {\n companion object\n}\n\npublic inline val
ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
\"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
\"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
\"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
\"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
\"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface FrameType {\n companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-
level\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
get() = \"nested\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external

```

```

interface ClientType {\n companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
get() = \"window\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
\"sharedworker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()\"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n */\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n open var onloadstart:
((ProgressEvent) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onabort:
((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n var onreadystatechange: ((Event) ->
dynamic)?\n open val readyState: Short\n var timeout: Int\n var withCredentials: Boolean\n open val upload:
XMLHttpRequestUpload\n open val responseURL: String\n open val status: Short\n open val statusText:
String\n var responseType: XMLHttpRequestResponseType\n open val response: Any?\n open val
responseText: String\n open val responseXML: Document?\n fun open(method: String, url: String)\n fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n fun setRequestHeader(name: String, value: String)\n fun send(body: dynamic =
definedExternally)\n fun abort()\n fun getResponseHeader(name: String): String?\n fun
getAllResponseHeaders(): String\n fun overrideMimeType(mime: String)\n\n companion object {\n val
UNSENT: Short\n val OPENED: Short\n val HEADERS_RECEIVED: Short\n val LOADING:
Short\n val DONE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n */\n\npublic external open class
FormData(form: HTMLFormElement = definedExternally) {\n fun append(name: String, value: String)\n fun
append(name: String, value: Blob, filename: String = definedExternally)\n fun delete(name: String)\n fun
get(name: String): dynamic\n fun getAll(name: String): Array<dynamic>\n fun has(name: String): Boolean\n
fun set(name: String, value: String)\n fun set(name: String, value: Blob, filename: String =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n */\n\npublic external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n open val
lengthComputable: Boolean\n open val loaded: Number\n open val total: Number\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ProgressEventInit : EventInit {\n var
lengthComputable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var loaded: Number? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var total:
Number? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ProgressEventInit(lengthComputable:
Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {\n val o = js(\"({})\")\n o[\"lengthComputable\"] =
lengthComputable\n o[\"loaded\"] = loaded\n o[\"total\"] = total\n o[\"bubbles\"] = bubbles\n

```

```

o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/* please, don't implement this
interface! */\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface XMLHttpRequestResponseType {\n companion object\n}\n\npublic inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"\n".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
"blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
"text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()","/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an experimental API.\n *\n * Any declaration annotated with that marker is
considered an experimental declaration\n * and its call sites should accept the experimental aspect of it either by
using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing further
propagation of that experimental aspect.\n *\n * This class is deprecated in favor of a more general approach
provided by [RequiresOptIn]/[OptIn].\n
*/\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use RequiresOptIn
instead.")\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n /**\n * Severity of the
diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect\n * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
annotation.\n */\n public enum class Level {\n /** Specifies that a warning should be reported on incorrect
usages of this experimental API. */\n WARNING,\n /** Specifies that an error should be reported on
incorrect usages of this experimental API. */\n ERROR,\n }\n}\n\n/**\n * Allows to use experimental API
denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated
with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\n *\n * This class is
deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n */\n\n@Target(\n CLASS,
PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)\n\n@Retention(SOURCE)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))\npublic annotation class UseExperimental(\n vararg val
markerClass: KClass<out Annotation>)\n}\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n vararg val markerClass:
KClass<out Annotation>)\n}\n", "package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This
annotation marks the standard library API that is considered experimental and is not subject to the\n * [general
compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
standard library:\n * the behavior of such API may be changed or the API may be removed completely in any
further release.\n *\n * > Beware using the annotated API especially if you're developing a library, since your library

```

might become binary incompatible with the future versions of the standard library. Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)` or by using the compiler argument `-Xopt-in=kotlin.ExperimentalStdlibApi`.

```

@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.ERROR)
@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@Retention(AnnotationRetention.BINARY)
@Target(
 CLASS,
 ANNOTATION_CLASS,
 PROPERTY,
 FIELD,
 LOCAL_VARIABLE,
 VALUE_PARAMETER,
 CONSTRUCTOR,
 FUNCTION,
 PROPERTY_GETTER,
 PROPERTY_SETTER,
 TYPE_ALIAS
)
@MustBeDocumented
@SinceKotlin("1.3")
public annotation class ExperimentalStdlibApi

```

Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```

package kotlin
import kotlin.annotation.AnnotationTarget
import kotlin.experimental.ExperimentalTypeInference

```

Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function. When this annotation is placed on a generic function parameter of a function, it enables to infer the type arguments of that generic function from the lambda body passed to that parameter. The calls that affect inference are either members of the receiver type of an annotated function parameter or extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.

Example: we declare `fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T>` and use it like `val result = sequence { yield("result") }`. Here the type argument of the resulting sequence is inferred to `String` from the argument of the `[SequenceScope.yield]` function, that is called inside the lambda passed to `[sequence]`.

Note: this annotation is experimental, see `[ExperimentalTypeInference]` on how to opt-in for it.

```

@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@ExperimentalTypeInference
public annotation class BuilderInference

```

Enables overload selection based on the type of the value returned from lambda argument. When two or more function overloads have otherwise the same parameter lists that differ only in the return type of a functional parameter, this annotation enables overload selection by the type of the value returned from the lambda function passed to this functional parameter.

Example:

```

@OverloadResolutionByLambdaReturnType
fun create(intProducer: () -> Int): Int
fun create(doubleProducer: () -> Double): Double

```

`val newValue = create { 3.14 }`

The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned from the lambda function. This annotation is also used to discriminate the annotated overloads in case if overload selection still cannot choose one of them even taking in account the result of lambda parameter analysis. In that case a warning is reported.

Note: this annotation is experimental, see `[ExperimentalTypeInference]` on how to opt-in for it.

```

@Target(FUNCTION)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.4")
@ExperimentalTypeInference
public annotation class OverloadResolutionByLambdaReturnType

```

Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```

package kotlin
import kotlin.annotation.AnnotationTarget
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

```

The experimental multiplatform support API marker.

Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)` or by using the compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.

```

@Suppress("DEPRECATION")
@Experimental
@RequiresOptIn
@MustBeDocumented
@Target(
 CLASS,
 ANNOTATION_CLASS,
 PROPERTY,
 FIELD,
 LOCAL_VARIABLE,
 VALUE_PARAMETER,
 CONSTRUCTOR,
 FUNCTION,
 PROPERTY_GETTER,
 PROPERTY_SETTER,

```

```

TYPEALIAS\n\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n/**\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n * This\n * annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as\n * "optional".\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional\n * annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no\n * corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when\n * compiling code on that platform.\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on\n * how to opt-in for it.\n */\n\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic\nannotation class OptionalExpectation\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming\n * Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport\nkotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport\nkotlin.annotation.AnnotationTarget\nimport kotlin.internal.RequireKotlin\nimport\nkotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated\n * annotation class is a marker of an API that requires an explicit opt-in.\n * Call sites of any declaration annotated\n * with that marker should opt in to the API either by using [OptIn],\n * or by being annotated with that marker\n * themselves, effectively causing further propagation of the opt-in requirement.\n * This class requires opt-in itself\n * and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n * @property message\n * message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n *\n * The default message is: "This declaration is experimental and its usage should be marked with 'Marker'\n * or 'OptIn(Marker::class)", where `Marker` is the opt-in requirement marker.\n * @property level specifies\n * how usages of API without an explicit opt-in are reported in code.\n */\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70\n", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n val message: String = "",\n val level: Level = Level.ERROR\n) {\n /**\n * Severity of the diagnostic that\n * should be reported on usages which did not explicitly opt into\n * the API either by using [OptIn] or by being\n * annotated with the corresponding marker annotation.\n */\n public enum class Level {\n /** Specifies that a\n warning should be reported on incorrect usages of this API. */\n WARNING,\n /** Specifies that an error\n should be reported on incorrect usages of this API. */\n ERROR,\n }\n}\n\n/**\n * Allows to use the API\n * denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with\n * [OptIn], its usages are **not** required to opt in to that API.\n * This class requires opt-in itself and can only be\n * used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n */\n\n@Target(\n CLASS, PROPERTY,\n LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,\n PROPERTY_SETTER, EXPRESSION, FILE,\n TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind =\nRequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n vararg val markerClass:\n KClass<out Annotation>\n)\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\n * contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal\n * implementation of the read-only [Collection] interface.\n * @param E the type of elements contained in the\n * collection. The collection is covariant in its element type.\n */\n\n@SinceKotlin("1.1")\npublic abstract class\nAbstractCollection<out E> protected constructor() : Collection<E> {\n abstract override val size: Int\n abstract\n override fun iterator(): Iterator<E>\n\n override fun contains(element: @UnsafeVariance E): Boolean = any { it\n == element }\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n override fun

```

```

isEmpty(): Boolean = size == 0\n\n override fun toString(): String = joinToString(", ", "[", "]") {n if (it
=== this) \"(this Collection)\" else it.toString()\n } \n\n /**\n * Returns new array of type `Array<Any?>` with
the elements of this collection.\n *\n @JsName(\"toArray\")\n protected open fun toArray(): Array<Any?> =
copyToArrayImpl(this)\n\n /**\n * Fills the provided [array] or creates new array of the same type\n * and
fills it with the elements of this collection.\n *\n protected open fun <T> toArray(array: Array<T>): Array<T>
= copyToArrayImpl(this, array)\n}\n\", \"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nprivate enum class State {\n Ready,\n
NotReady,\n Done,\n Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that
implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the
iteration is complete.\n *\npublic abstract class AbstractIterator<T> : Iterator<T> {\n private var state =
State.NotReady\n private var nextValue: T? = null\n\n override fun hasNext(): Boolean {\n require(state !=
State.Failed)\n return when (state) {\n State.Done -> false\n State.Ready -> true\n else ->
tryToComputeNext()\n }\n }\n\n override fun next(): T {\n if (!hasNext()) throw
NoSuchElementException()\n state = State.NotReady\n @Suppress(\"UNCHECKED_CAST\")\n return nextValue as T\n }\n\n private fun tryToComputeNext(): Boolean {\n state = State.Failed\n
computeNext()\n return state == State.Ready\n }\n\n /**\n * Computes the next item in the iterator.\n
*\n * This callback method should call one of these two methods:\n * * [setNext] with the next value of
the iteration\n * * [done] to indicate there are no more elements\n * * Failure to call either method will
result in the iteration terminating with a failed state\n *\n abstract protected fun computeNext(): Unit\n\n
/**\n * Sets the next value in the iteration, called from the [computeNext] function\n *\n protected fun
setNext(value: T): Unit {\n nextValue = value\n state = State.Ready\n }\n\n /**\n * Sets the state to
done so that the iteration terminates.\n *\n protected fun done() {\n state = State.Done\n }\n}\n\n\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nBased on
GWT AbstractList\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal
implementation of the read-only [List] interface.\n *\n * This class is intended to help implementing read-only lists
so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the list.
The list is covariant in its element type.\n */\n\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractList<out E>
protected constructor() : AbstractCollection<E>(), List<E> {\n abstract override val size: Int\n abstract override
fun get(index: Int): E\n\n override fun iterator(): Iterator<E> = IteratorImpl()\n\n override fun indexOf(element:
@UnsafeVariance E): Int = indexOfFirst { it == element }\n\n override fun lastIndexOf(element:
@UnsafeVariance E): Int = indexOfLast { it == element }\n\n override fun listIterator(): ListIterator<E> =
ListIteratorImpl(0)\n\n override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n
override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n private class
SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),
RandomAccess {\n private var _size: Int = 0\n\n init {\n checkRangeIndexes(fromIndex, toIndex,
list.size)\n this._size = toIndex - fromIndex\n }\n\n override fun get(index: Int): E {\n
checkElementIndex(index, _size)\n return list[fromIndex + index]\n }\n\n override val size: Int
get() = _size\n }\n\n /**\n * Compares this list with other list instance with the ordered structural equality.\n
*\n * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same
order.\n *\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is
List<*>) return false\n\n return orderedEquals(this, other)\n }\n\n /**\n * Returns the hash code value for
this list.\n *\n override fun hashCode(): Int = orderedHashCode(this)\n\n private open inner class IteratorImpl
: Iterator<E> {\n /** the index of the item that will be returned on the next call to [next]`()` *\n protected
var index = 0\n\n override fun hasNext(): Boolean = index < size\n\n override fun next(): E {\n if
(!hasNext()) throw NoSuchElementException()\n return get(index++)\n }\n }\n\n /**\n *
Implementation of [ListIterator] for abstract lists.\n *\n private open inner class ListIteratorImpl(index: Int) :

```

```

IteratorImpl(), ListIterator<E> {\n
 init {\n
 checkPositionIndex(index, this@AbstractList.size)\n
 }\n
 this.index = index\n
 }\n
 override fun hasPrevious(): Boolean = index > 0\n
 override fun\n
 nextIndex(): Int = index\n
 override fun previous(): E {\n
 if (!hasPrevious()) throw\n
 NoSuchElementException()\n
 return get(--index)\n
 }\n
 override fun previousIndex(): Int = index -\n
 1\n
 }\n
 internal companion object {\n
 internal fun checkElementIndex(index: Int, size: Int) {\n
 if\n
 (index < 0 || index >= size) {\n
 throw IndexOutOfBoundsException("\n
 index: $index, size: $size")\n
 }\n
 }\n
 internal fun checkPositionIndex(index: Int, size: Int) {\n
 if (index < 0 || index > size) {\n
 throw IndexOutOfBoundsException("\n
 index: $index, size: $size")\n
 }\n
 }\n
 internal fun\n
 checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n
 if (fromIndex < 0 || toIndex > size) {\n
 throw IndexOutOfBoundsException("\n
 fromIndex: $fromIndex, toIndex: $toIndex, size: $size")\n
 }\n
 if (fromIndex > toIndex) {\n
 throw IllegalArgumentException("\n
 fromIndex: $fromIndex > toIndex:\n
 $toIndex")\n
 }\n
 }\n
 internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n
 if (startIndex < 0 || endIndex > size) {\n
 throw IndexOutOfBoundsException("\n
 startIndex:\n
 $startIndex, endIndex: $endIndex, size: $size")\n
 }\n
 if (startIndex > endIndex) {\n
 throw\n
 IllegalArgumentException("\n
 startIndex: $startIndex > endIndex: $endIndex")\n
 }\n
 }\n
 internal\n
 fun orderedHashCode(c: Collection<*>): Int {\n
 var hashCode = 1\n
 for (e in c) {\n
 hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n
 }\n
 return hashCode\n
 }\n
 internal fun\n
 orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n
 if (c.size != other.size) return false\n
 val otherIterator = other.iterator()\n
 for (elem in c) {\n
 val elemOther = otherIterator.next()\n
 if (elem != elemOther) {\n
 return false\n
 }\n
 }\n
 return true\n
 }\n
 }\n
 }\n
 /*\n
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this\n
 source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
 *\n
 * Based on GWT AbstractMap\n
 * Copyright 2007 Google Inc.\n
 */\n
 package kotlin.collections\n
 /**\n
 * Provides\n
 a skeletal implementation of the read-only [Map] interface.\n
 *\n
 * The implementor is required to implement\n
 [entries] property, which should return read-only set of map entries.\n
 *\n
 * @param K the type of map keys. The\n
 map is invariant in its key type.\n
 *\n
 * @param V the type of map values. The map is covariant in its value type.\n
 */\n
 @SinceKotlin("1.1")\n
 public abstract class AbstractMap<K, out V> protected constructor() : Map<K, V>\n
 {\n
 override fun containsKey(key: K): Boolean {\n
 return implFindEntry(key) != null\n
 }\n
 override\n
 fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n
 internal fun\n
 containsEntry(entry: Map.Entry<*, *>): Boolean {\n
 // since entry comes from @UnsafeVariance parameters it\n
 can be virtually anything\n
 if (entry !is Map.Entry<*, *>) return false\n
 val key = entry.key\n
 val value\n
 = entry.value\n
 val ourValue = get(key)\n
 if (value != ourValue) {\n
 return false\n
 }\n
 //\n
 Perhaps it was null and we don't contain the key?\n
 if (ourValue == null && !containsKey(key)) {\n
 return false\n
 }\n
 return true\n
 }\n
 /**\n
 * Compares this map with other instance with the\n
 ordered structural equality.\n
 *\n
 * @return true, if [other] instance is a [Map] of the same size, all entries of\n
 which are contained in the [entries] set of this map.\n
 */\n
 override fun equals(other: Any?): Boolean {\n
 if\n
 (other === this) return true\n
 if (other !is Map<*, *>) return false\n
 if (size != other.size) return false\n
 return other.entries.all { containsEntry(it) }\n
 }\n
 override operator fun get(key: K): V? =\n
 implFindEntry(key)?.value\n
 /**\n
 * Returns the hash code value for this map.\n
 *\n
 * It is the same as\n
 the hashCode of [entries] set.\n
 */\n
 override fun hashCode(): Int = entries.hashCode()\n
 override fun\n
 isEmpty(): Boolean = size == 0\n
 override val size: Int get() = entries.size\n
 /**\n
 * Returns a read-only\n
 [Set] of all keys in this map.\n
 *\n
 * Accessing this property first time creates a keys view from [entries].\n
 *\n
 * All subsequent accesses just return the created instance.\n
 */\n
 override val keys: Set<K>\n
 get() {\n
 if (_keys == null) {\n
 _keys = object : AbstractSet<K>() {\n
 override operator fun\n
 contains(element: K): Boolean = containsKey(element)\n
 override operator fun iterator(): Iterator<K>\n
 {\n
 val entryIterator = entries.iterator()\n
 return object : Iterator<K> {\n
 override fun hasNext(): Boolean = entryIterator.hasNext()\n
 override fun next(): K =\n
 entryIterator.next().key\n
 }\n
 }\n
 }\n
 }\n
 return _keys\n
 }\n
 override val size: Int get() =\n

```



```

this@AbstractMap.size\n }\n }\n return _keys!!\n }\n\n @kotlin.jvm.Volatile\n private var _keys: Set<K>? = null\n\n override fun toString(): String = entries.joinToString(", ", "\n", "\n") {\n toString(it) }\n\n private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" +\n toString(entry.value)\n\n private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()\n\n /**\n * Returns a read-only [Collection] of all values in this map.\n * \n * Accessing this property first time\n creates a values view from [entries].\n * All subsequent accesses just return the created instance.\n *\n override val values: Collection<V>\n get() {\n if (_values == null) {\n _values = object :
AbstractCollection<V>() {\n override operator fun contains(element: @UnsafeVariance V): Boolean =
containsValue(element)\n override operator fun iterator(): Iterator<V> {\n val
entryIterator = entries.iterator()\n return object : Iterator<V> {\n override fun
hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n }\n }\n }\n return _values!!\n }\n\n @kotlin.jvm.Volatile\n private var _values: Collection<V>? = null\n\n private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n internal
companion object {\n internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?:
0) xor (value?.hashCode() ?: 0) }\n internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {\n \"$key=$value\" }\n internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n if (other !is
Map.Entry<*, *>) return false\n return e.key == other.key && e.value == other.value\n }\n }\n\n }"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\n *\n * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n\n */\n@SinceKotlin("1.1")\npublic abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n\n /**\n * Compares this set with other set instance with the unordered
structural equality.\n *\n * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n *\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is Set<*>) return false\n return setEquals(this, other)\n }\n\n /**\n * Returns the hash code
value for this set.\n *\n override fun hashCode(): Int = unorderedHashCode(this)\n\n internal companion
object {\n internal fun unorderedHashCode(c: Collection<*>): Int {\n var hashCode = 0\n for
(element in c) {\n hashCode += (element?.hashCode() ?: 0)\n }\n return hashCode\n }\n internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n if (c.size != other.size) return false\n return c.containsAll(other)\n }\n }\n\n }"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n */\npackage kotlin.collections\n\n/**\n * Resizable-array implementation
of the deque data structure.\n *\n * The name deque is short for "double ended queue" and is usually pronounced
"deck".\n *\n * The collection provide methods for convenient access to the both ends.\n * It also implements
[MutableList] interface and supports efficient get/set operations by index.\n\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n private var head: Int = 0\n private var elementData: Array<Any?>\n\n override
var size: Int = 0\n private set\n\n /**\n * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.\n *\n public constructor(initialCapacity:
Int) {\n elementData = when {\n initialCapacity == 0 -> emptyElementData\n initialCapacity > 0 -
> arrayOfNulls(initialCapacity)\n else -> throw IllegalArgumentException("Illegal Capacity:
$initialCapacity")\n }\n }\n\n /**\n * Constructs an empty deque.\n *\n public constructor() {\n elementData = emptyElementData\n }\n\n /**\n * Constructs a deque that contains the same elements as the
specified [elements] collection in the same order.\n *\n public constructor(elements: Collection<E>) {\n elementData = elements.toArray()\n size = elementData.size\n if (elementData.isEmpty())

```

```

elementData = emptyElementData\n }\n\n /**\n * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].\n *\n * If the current capacity is less than the [minCapacity], a new backing
storage is allocated with greater capacity.\n * Otherwise, this method takes no action and simply returns.\n */\n private fun ensureCapacity(minCapacity: Int) {\n if (minCapacity < 0) throw IllegalStateException("Deque is
too big.") // overflow\n if (minCapacity <= elementData.size) return\n if (elementData ===
emptyElementData) {\n elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n return\n }\n val newCapacity = newCapacity(elementData.size, minCapacity)\n copyElements(newCapacity)\n }\n\n /**\n * Creates a new array with the specified [newCapacity] size and
copies elements in the [elementData] array to it.\n */\n private fun copyElements(newCapacity: Int) {\n val
newElements = arrayOfNulls<Any?>(newCapacity)\n elementData.copyInto(newElements, 0, head,
elementData.size)\n elementData.copyInto(newElements, elementData.size - head, 0, head)\n head = 0\n elementData = newElements\n }\n\n @kotlin.internal.InlineOnly\n private inline fun
internalGet(internalIndex: Int): E {\n @Suppress("UNCHECKED_CAST")\n return
elementData[internalIndex] as E\n }\n\n private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index\n\n private fun negativeMod(index: Int): Int = if (index < 0)
index + elementData.size else index\n\n @kotlin.internal.InlineOnly\n private inline fun internalIndex(index:
Int): Int = positiveMod(head + index)\n\n private fun incremented(index: Int): Int = if (index ==
elementData.lastIndex) 0 else index + 1\n\n private fun decremented(index: Int): Int = if (index == 0)
elementData.lastIndex else index - 1\n\n override fun isEmpty(): Boolean = size == 0\n\n /**\n * Returns the
first element, or throws [NoSuchElementException] if this deque is empty.\n */\n public fun first(): E = if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n /**\n *
Returns the first element, or `null` if this deque is empty.\n */\n public fun firstOrNull(): E? = if (isEmpty()) null
else internalGet(head)\n\n /**\n * Returns the last element, or throws [NoSuchElementException] if this deque
is empty.\n */\n public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))\n\n /**\n * Returns the last element, or `null` if this deque is empty.\n
 */\n public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n /**\n *
Prepends the specified [element] to this deque.\n */\n public fun addFirst(element: E) {\n ensureCapacity(size + 1)\n head = decremented(head)\n elementData[head] = element\n size += 1\n }\n\n /**\n * Appends the specified [element] to this deque.\n */\n public fun addLast(element: E) {\n ensureCapacity(size + 1)\n elementData[internalIndex(size)] = element\n size += 1\n }\n\n /**\n *
Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.\n */\n public fun removeFirst(): E {\n if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")\n val element = internalGet(head)\n elementData[head] = null\n head = incremented(head)\n size -= 1\n return element\n }\n\n /**\n * Removes the first element from this deque and returns that removed element, or returns `null` if this deque is
empty.\n */\n public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()\n\n /**\n *
Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.\n */\n public fun removeLast(): E {\n if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")\n val internalLastIndex = internalIndex(lastIndex)\n val element = internalGet(internalLastIndex)\n elementData[internalLastIndex] = null\n size -= 1\n return element\n }\n\n /**\n * Removes the last element from this deque and returns that removed element, or
returns `null` if this deque is empty.\n */\n public fun removeLastOrNull(): E? = if (isEmpty()) null else
removeLast()\n\n // MutableList, MutableCollection\n public override fun add(element: E): Boolean {\n addLast(element)\n return true\n }\n\n public override fun add(index: Int, element: E) {\n AbstractList.checkPositionIndex(index, size)\n if (index == size) {\n addLast(element)\n return\n } else if (index == 0) {\n addFirst(element)\n return\n }\n ensureCapacity(size
+ 1)\n // Elements in circular array lay in 2 ways:\n // 1. `head` is less than `tail`: [#, #, e1, e2, e3,
#]\n // 2. `head` is greater than `tail`: [e3, #, #, #, e1, e2]\n // where head is the index of the first element

```

```

in the circular array,\n // and tail is the index following the last element.\n //\n // At this point the
insertion index is not equal to head or tail.\n // Also the circular array can store at least one more element.\n
/>\n // Depending on where the given element must be inserted the preceding or the succeeding\n // elements
will be shifted to make room for the element to be inserted.\n //\n // In case the preceding elements are
shifted:\n // * if the insertion index is greater than the head (regardless of circular array form)\n // ->
shift the preceding elements\n // * otherwise, the circular array has (2) form and the insertion index is less than
tail\n // -> shift all elements in the back of the array\n // -> shift preceding elements in the front of the
array\n // In case the succeeding elements are shifted:\n // * if the insertion index is less than the tail
(regardless of circular array form)\n // -> shift the succeeding elements\n // * otherwise, the circular
array has (2) form and the insertion index is greater than head\n // -> shift all elements in the front of the
array\n // -> shift succeeding elements in the back of the array\n\n val internalIndex =
internalIndex(index)\n\n if (index < (size + 1) shr 1) {\n // closer to the first element -> shift preceding
elements\n val decrementedInternalIndex = decremented(internalIndex)\n val decrementedHead =
decremented(head)\n\n if (decrementedInternalIndex >= head) {\n elementData[decrementedHead]
= elementData[head] // head can be zero\n elementData.copyInto(elementData, head, head + 1,
decrementedInternalIndex + 1)\n } else { // head > tail\n elementData.copyInto(elementData, head -
1, head, elementData.size) // head can't be zero\n elementData[elementData.size - 1] = elementData[0]\n
 elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n }\n\n elementData[decrementedInternalIndex] = element\n head = decrementedHead\n } else {\n //
closer to the last element -> shift succeeding elements\n val tail = internalIndex(size)\n\n if
(internalIndex < tail) {\n elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n
 } else { // head > tail\n elementData.copyInto(elementData, 1, 0, tail)\n elementData[0] =
elementData[elementData.size - 1]\n elementData.copyInto(elementData, internalIndex + 1, internalIndex,
elementData.size - 1)\n }\n elementData[internalIndex] = element\n }\n size += 1\n }\n\n private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n val iterator =
elements.iterator()\n for (index in internalIndex until elementData.size) {\n if (!iterator.hasNext())
break\n elementData[index] = iterator.next()\n }\n for (index in 0 until head) {\n if
(!iterator.hasNext()) break\n elementData[index] = iterator.next()\n }\n size += elements.size\n
}\n\n public override fun addAll(elements: Collection<E>): Boolean {\n if (elements.isEmpty()) return false\n
 ensureCapacity(this.size + elements.size)\n copyCollectionElements(internalIndex(size), elements)\n
return true\n }\n\n public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
AbstractList.checkPositionIndex(index, size)\n\n if (elements.isEmpty()) {\n return false\n } else if
(index == size) {\n return addAll(elements)\n }\n\n ensureCapacity(this.size + elements.size)\n\n val tail = internalIndex(size)\n val internalIndex = internalIndex(index)\n val elementsSize =
elements.size\n\n if (index < (size + 1) shr 1) {\n // closer to the first element -> shift preceding
elements\n\n var shiftedHead = head - elementsSize\n\n if (internalIndex >= head) {\n if
(shiftedHead >= 0) {\n elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n
 } else { // head < tail, insertion leads to head >= tail\n shiftedHead += elementData.size\n val
elementsToShift = internalIndex - head\n val shiftToBack = elementData.size - shiftedHead\n\n if (shiftToBack >= elementsToShift) {\n elementData.copyInto(elementData, shiftedHead, head,
internalIndex)\n } else {\n elementData.copyInto(elementData, shiftedHead, head, head +
shiftToBack)\n elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n }\n }\n } else { // head > tail, internalIndex < tail\n elementData.copyInto(elementData,
shiftedHead, head, elementData.size)\n if (elementsSize >= internalIndex) {\n elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n } else {\n elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n
 }\n elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n }\n }\n head =
shiftedHead\n copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n } else

```

```

{\n // closer to the last element -> shift succeeding elements\n\n val shiftedInternalIndex =
internalIndex + elementsSize\n\n if (internalIndex < tail) {\n if (tail + elementsSize <=
elementData.size) {\n elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n
 } else { // head < tail, insertion leads to head >= tail\n if (shiftedInternalIndex >= elementData.size)\n
{\n elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n
 } else {\n val shiftToFront = tail + elementsSize - elementData.size\n
elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n elementData.copyInto(elementData,
shiftedInternalIndex, internalIndex, tail - shiftToFront)\n }\n }\n } else { // head > tail,
internalIndex > head\n elementData.copyInto(elementData, elementsSize, 0, tail)\n if
(shiftedInternalIndex >= elementData.size) {\n elementData.copyInto(elementData, shiftedInternalIndex
- elementData.size, internalIndex, elementData.size)\n } else {\n
elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n
elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n
}\n }\n copyCollectionElements(internalIndex, elements)\n }\n\n return true\n }\n\n public
override fun get(index: Int): E {\n AbstractList.checkElementIndex(index, size)\n\n return
internalGet(internalIndex(index))\n }\n\n public override fun set(index: Int, element: E): E {\n
AbstractList.checkElementIndex(index, size)\n\n val internalIndex = internalIndex(index)\n val oldElement
= internalGet(internalIndex)\n elementData[internalIndex] = element\n\n return oldElement\n }\n\n
public override fun contains(element: E): Boolean = indexOf(element) != -1\n\n public override fun
indexOf(element: E): Int {\n val tail = internalIndex(size)\n\n if (head < tail) {\n for (index in head
until tail) {\n if (element == elementData[index]) return index - head\n }\n } else if (head >=
tail) {\n for (index in head until elementData.size) {\n if (element == elementData[index]) return
index - head\n }\n for (index in 0 until tail) {\n if (element == elementData[index]) return
index + elementData.size - head\n }\n }\n\n return -1\n }\n\n public override fun
lastIndexOf(element: E): Int {\n val tail = internalIndex(size)\n\n if (head < tail) {\n for (index in tail
- 1 downTo head) {\n if (element == elementData[index]) return index - head\n }\n } else if
(head > tail) {\n for (index in tail - 1 downTo 0) {\n if (element == elementData[index]) return
index + elementData.size - head\n }\n for (index in elementData.lastIndex downTo head) {\n
if (element == elementData[index]) return index - head\n }\n }\n\n return -1\n }\n\n public
override fun remove(element: E): Boolean {\n val index = indexOf(element)\n if (index == -1) return
false\n removeAt(index)\n return true\n }\n\n public override fun removeAt(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n\n if (index == lastIndex) {\n return removeLast()\n }
else if (index == 0) {\n return removeFirst()\n }\n\n val internalIndex = internalIndex(index)\n
val element = internalGet(internalIndex)\n\n if (index < size shr 1) {\n // closer to the first element ->
shift preceding elements\n if (internalIndex >= head) {\n elementData.copyInto(elementData, head
+ 1, head, internalIndex)\n } else { // head > tail, internalIndex < head\n
elementData.copyInto(elementData, 1, 0, internalIndex)\n elementData[0] = elementData[elementData.size
- 1]\n elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n }\n\n elementData[head] = null\n head = incremented(head)\n } else {\n // closer to the last element ->
shift succeeding elements\n val internalLastIndex = internalIndex(lastIndex)\n\n if (internalIndex <=
internalLastIndex) {\n elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n }\n\n elementData[internalLastIndex] = null\n }\n size -= 1\n\n
return element\n }\n\n public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n\n public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n\n private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n if

```

```

(this.isEmpty() || elementData.isEmpty())\n return false\n\n val tail = internalIndex(size)\n var\n newTail = head\n var modified = false\n if (head < tail) {\n for (index in head until tail) {\n val element = elementData[index]\n @Suppress(\"UNCHECKED_CAST\")\n if\n (predicate(element as E))\n elementData[newTail++] = element\n else\n modified =\n true\n }\n elementData.fill(null, newTail, tail)\n } else {\n for (index in head until\n elementData.size) {\n val element = elementData[index]\n elementData[index] = null\n @Suppress(\"UNCHECKED_CAST\")\n if (predicate(element as E))\n elementData[newTail++] = element\n else\n modified = true\n }\n newTail =\n positiveMod(newTail)\n for (index in 0 until tail) {\n val element = elementData[index]\n elementData[index] = null\n @Suppress(\"UNCHECKED_CAST\")\n if (predicate(element as\n E)) {\n elementData[newTail] = element\n newTail = incremented(newTail)\n }\n else {\n modified = true\n }\n }\n if (modified)\n size =\n negativeMod(newTail - head)\n return modified\n }\n\n public override fun clear() {\n val tail =\n internalIndex(size)\n if (head < tail) {\n elementData.fill(null, head, tail)\n } else if (isNotEmpty())\n {\n elementData.fill(null, head, elementData.size)\n elementData.fill(null, 0, tail)\n }\n head =\n 0\n size = 0\n }\n\n @Suppress(\"NOTHING_TO_OVERRIDE\")\n override fun <T> toArray(array:\n Array<T>): Array<T> {\n @Suppress(\"UNCHECKED_CAST\")\n val dest = (if (array.size >= size) array\n else arrayOfNulls(array, size)) as Array<Any?>\n val tail = internalIndex(size)\n if (head < tail) {\n elementData.copyInto(dest, startIndex = head, endIndex = tail)\n } else if (isNotEmpty()) {\n elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n }\n if (dest.size > size) {\n dest[size] = null // null-terminate\n }\n @Suppress(\"UNCHECKED_CAST\")\n return dest as Array<T>\n }\n\n @Suppress(\"NOTHING_TO_OVERRIDE\")\n override fun toArray(): Array<Any?> {\n return\n toArray(arrayOfNulls<Any?>(size))\n }\n\n // for testing\n internal fun <T> testToArray(array: Array<T>):\n Array<T> = toArray(array)\n internal fun testToArray(): Array<Any?> = toArray()\n\n internal companion\n object {\n private val emptyElementData = emptyArray<Any?>()\n private const val maxArraySize =\n Int.MAX_VALUE - 8\n private const val defaultMinCapacity = 10\n internal fun\n newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n // overflow-conscious\n var newCapacity =\n oldCapacity + (oldCapacity shr 1)\n if (newCapacity - minCapacity < 0)\n newCapacity =\n minCapacity\n if (newCapacity - maxArraySize > 0)\n newCapacity = if (minCapacity >\n maxArraySize) Int.MAX_VALUE else maxArraySize\n return newCapacity\n }\n }\n\n // For testing\n only\n internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) -> Unit) {\n val tail =\n internalIndex(size)\n val head = if (isEmpty() || head < tail) head else head - elementData.size\n structure(head, toArray())\n }\n\n /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n\n */\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n package\n kotlin.collections\n import kotlin.contracts.*\n\n /**\n * Returns a single list of all elements from all arrays in the\n given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\n public fun <T> Array<out\n Array<out T>>.flatten(): List<T> {\n val result = ArrayList<T>(sumOf { it.size })\n for (element in this) {\n result.addAll(element)\n }\n return result\n }\n\n /**\n * Returns a pair of lists, where\n * *first* list is built from\n the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this\n array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\n public fun <T, R> Array<out\n Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n val listT = ArrayList<T>(size)\n val listR =\n ArrayList<R>(size)\n for (pair in this) {\n listT.add(pair.first)\n listR.add(pair.second)\n }\n return\n listT to listR\n }\n\n /**\n * Returns `true` if this nullable array is either null or empty.\n * @sample\n samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
```

```

\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<>?.isEmptyOrNull(): Boolean
{\n contract {\n returns(false) implies (this@isEmptyOrNull != null)\n }\n return this == null ||
this.isEmpty()\n}\n\n**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n *\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY\
")\npublic inline fun <C, R> C.isEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())
defaultValue() else
this\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm
Name("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T> Array<out
T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n if (this === other) return true\n if (this == null
|| other == null || this.size != other.size) return false\n\n for (i in indices) {\n val v1 = this[i]\n val v2 =
other[i]\n\n if (v1 === v2) {\n continue\n } else if (v1 == null || v2 == null) {\n return false\n
 }\n\n when {\n v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return
false\n v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is
ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is IntArray && v2 is
IntArray -> if (!v1.contentEquals(v2)) return false\n v1 is LongArray && v2 is LongArray -> if
(!v1.contentEquals(v2)) return false\n v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2))
return false\n v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n
 v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n v1 is BooleanArray &&
v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n v1 is UByteArray && v2 is UByteArray
-> if (!v1.contentEquals(v2)) return false\n v1 is UShortArray && v2 is UShortArray -> if
(!v1.contentEquals(v2)) return false\n v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2))
return false\n v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n\n else -> if (v1 != v2) return false\n }\n\n }\n return
true\n}\n\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n if (this == null) return "null"\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not
to overflow Int.MAX_VALUE\n return buildString(length) {\n contentDeepToStringInternal(this,
mutableListOf())\n }\n}\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append("[")\n\n for (i
in indices) {\n if (i != 0) {\n result.append(", ")\n }\n val element = this[i]\n when
(element) {\n null -> result.append("null")\n is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n is ByteArray ->
result.append(element.contentToString())\n is ShortArray -> result.append(element.contentToString())\n
 is IntArray -> result.append(element.contentToString())\n is LongArray ->
result.append(element.contentToString())\n is FloatArray -> result.append(element.contentToString())\n
 is DoubleArray -> result.append(element.contentToString())\n is CharArray ->
result.append(element.contentToString())\n is BooleanArray -> result.append(element.contentToString())\n\n
 is UByteArray -> result.append(element.contentToString())\n is UShortArray ->
result.append(element.contentToString())\n is UIntArray -> result.append(element.contentToString())\n
 is ULongArray -> result.append(element.contentToString())\n else ->
result.append(element.toString())\n }\n }\n result.append("]")\n processed.removeAt(processed.lastIndex)\n}"}
**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.collections\n\n\n**\n * Returns true if the brittle contains optimization
is enabled. See KT-45438. *\n\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n\n**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set

```

```

without changing contains method behavior.
private fun <T> Collection<T>.safeToConvertToSet() =
 brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList
When
[brittleContainsOptimizationEnabled] is true:
 - Converts this [Iterable] to a set if it is not a [Collection].
 - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.
 - Otherwise returns this.
When [brittleContainsOptimizationEnabled] is false:
 - Converts this [Iterable] to a list if it is not a [Collection].
 - Otherwise returns this.
internal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =
 when (this) {
 is Set -> this
 is Collection -> when {
 source is Collection && source.size < 2 -> this
 else -> if (this.safeToConvertToSet()) toHashSet() else this
 }
 else -> if
 (brittleContainsOptimizationEnabled()) toHashSet() else toList()
 }
When
[brittleContainsOptimizationEnabled] is true:
 - Converts this [Iterable] to a set if it is not a [Collection].
 - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.
 - Otherwise returns this.
When [brittleContainsOptimizationEnabled] is false:
 - Converts this [Iterable] to a list if it is not a [Collection].
 - Otherwise returns this.
internal fun <T>
Iterable<T>.convertToSetForSetOperation(): Collection<T> =
 when (this) {
 is Set -> this
 is Collection -> if (this.safeToConvertToSet()) toHashSet() else this
 else -> if
 (brittleContainsOptimizationEnabled()) toHashSet() else toList()
 }
Converts this sequence to a set if
[brittleContainsOptimizationEnabled] is true,
otherwise converts it to a list.
internal fun <T>
Sequence<T>.convertToSetForSetOperation(): Collection<T> =
 if (brittleContainsOptimizationEnabled())
 toHashSet() else toList()
Converts this array to a set if [brittleContainsOptimizationEnabled] is true,
otherwise converts it to a list.
internal fun <T>
Array<T>.convertToSetForSetOperation(): Collection<T> =
 if (brittleContainsOptimizationEnabled()) toHashSet() else asList()
Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.
package kotlin.collections
Data class
representing a value from a collection or sequence, along with its index in that collection or sequence.
@property value the underlying value.
@property index the index of the value in the collection or sequence.
public data class IndexedValue<out T>(public val index: Int, public val value: T)
Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
@file:kotlin.jvm.JvmName("MapAccessorsKt")
package kotlin.collections
import
kotlin.reflect.KProperty
import kotlin.internal.Exact
Returns the value of the property for the given
object from this read-only map.
@param thisRef the object for which the value is requested (not used).
@param property the metadata for the property, used to get the name of property and lookup the value
corresponding to this name in the map.
@return the property value.
@throws NoSuchElementException
when the map doesn't contain value for the property name and doesn't provide an implicit default (see
[withDefault]).
@kotlin.internal.InlineOnly
public inline operator fun <V, V1 : V> Map<in String, @Exact
V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =
 @Suppress("UNCHECKED_CAST")
 (getOrNull(property.name) as V1)
Returns the value of the property for the given object from
this mutable map.
@param thisRef the object for which the value is requested (not used).
@param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in
the map.
@return the property value.
@throws NoSuchElementException
when the map doesn't contain
value for the property name and doesn't provide an implicit default (see [withDefault]).
@kotlin.jvm.JvmName("getVar")
@kotlin.internal.InlineOnly
public inline operator fun <V, V1 : V>
MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =
 @Suppress("UNCHECKED_CAST") (getOrNull(property.name) as V1)
Stores the value of
the property for the given object in this mutable map.
@param thisRef the object for which the value is
requested (not used).
@param property the metadata for the property, used to get the name of property and store
the value associated with that name in the map.
@param value the value to set.

```

```

*\/n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef:
Any?, property: KProperty<*>, value: V) {\n this.put(property.name, value)\n}\n"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\/n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\MapsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By
default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with
implicit default value use [withDefault] method.\n * \n * @throws NoSuchElementException when the map doesn't
contain a value for the specified key and no implicit default was provided for that map.\n
*\/n\n@kotlin.jvm.JvmName("\getOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K,
V>.getOrImplicitDefault(key: K): V {\n if (this is MapWithDefault)\n return
this.getOrImplicitDefault(key)\n return getOrElseNullable(key, { throw NoSuchElementException("Key $key
is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value
provided with the specified function [defaultValue].\n * \n * This implicit default value is used when the original
map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for
example when properties are delegated to the map.\n * \n * When this map already has an implicit default value
provided with a former call to [withDefault], it is being replaced by this call.\n *\/n\npublic fun <K, V> Map<K,
V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n when (this) {\n is MapWithDefault ->
this.map.withDefault(defaultValue)\n else -> MapWithDefaultImpl(this, defaultValue)\n }\n\n/**\n * Returns
a wrapper of this mutable map, having the implicit default value provided with the specified function
[defaultValue].\n * \n * This implicit default value is used when the original map doesn't contain a value for the key
specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the
map.\n * \n * When this map already has an implicit default value provided with a former call to [withDefault], it is
being replaced by this call.\n *\/n\n@kotlin.jvm.JvmName("\withDefaultMutable")\npublic fun <K, V>
MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n when (this) {\n is
MutableMapWithDefault -> this.map.withDefault(defaultValue)\n else -> MutableMapWithDefaultImpl(this,
defaultValue)\n }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n public val map: Map<K,
V>\n public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :
MutableMap<K, V>, MapWithDefault<K, V> {\n public override val map: MutableMap<K, V>\n}\n\nprivate
class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
MapWithDefault<K, V> {\n override fun equals(other: Any?): Boolean = map.equals(other)\n override fun
hashCode(): Int = map.hashCode()\n override fun toString(): String = map.toString()\n override val size: Int get()
= map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n override fun containsKey(key: K): Boolean =
map.containsKey(key)\n override fun containsValue(value: @UnsafeVariance V): Boolean =
map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n override val keys: Set<K> get() =
map.keys\n override val values: Collection<V> get() = map.values\n override val entries: Set<Map.Entry<K,
V>> get() = map.entries\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {
default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K,
V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n override fun equals(other: Any?):
Boolean = map.equals(other)\n override fun hashCode(): Int = map.hashCode()\n override fun toString(): String
= map.toString()\n override val size: Int get() = map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n
override fun containsKey(key: K): Boolean = map.containsKey(key)\n override fun containsValue(value:
@UnsafeVariance V): Boolean = map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n
override val keys: MutableSet<K> get() = map.keys\n override val values: MutableCollection<V> get() =
map.values\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n
override fun put(key: K, value: V): V? = map.put(key, value)\n override fun remove(key: K): V? =
map.remove(key)\n override fun putAll(from: Map<out K, V>) = map.putAll(from)\n override fun clear() =
map.clear()\n}\n\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key)

```



```

})\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element
from this\n * collection, if it is present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`.\n * \n * @return `true` if the element has been successfully removed; `false` if it was
not present in the collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline fun <@kotlin.internal.OnlyInputTypes
T> MutableCollection<out T>.remove(element: T): Boolean =\n @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `removeAll` that requires
to pass a collection of type `Collection<E>`.\n * \n * @return `true` if any of the specified elements was removed
from the collection, `false` if the collection was not modified.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean
=\n @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n *
Retains only the elements in this collection that are contained in the specified collection.\n * \n * Allows to
overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n * \n *
@return `true` if any element was removed from the collection, `false` if the collection was not modified.\n *
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.retainAll(elements: Collection<T>): Boolean =\n @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n *
*\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T)
{\n this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable
collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Iterable<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given
[elements] array to this mutable collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T>
MutableCollection<in T>.plusAssign(elements: Array<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] sequence to this mutable collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n
 this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable
collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(element: T) {\n this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given
[elements] collection from this mutable collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
<T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n this.removeAll(elements)\n}\n\n/**\n *
Removes all elements contained in the given [elements] array from this mutable collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Array<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements]
sequence from this mutable collection.\n * \n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] collection to this [MutableCollection].\n * \n\npublic fun <T>
MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n when (elements) {\n is Collection ->
return addAll(elements)\n else -> {\n var result: Boolean = false\n for (item in elements)\n if (add(item)) result = true\n return result\n }\n }\n}\n\n/**\n * Adds all elements of the given
[elements] sequence to this [MutableCollection].\n * \n\npublic fun <T> MutableCollection<in T>.addAll(elements:
Sequence<T>): Boolean {\n var result: Boolean = false\n for (item in elements) {\n if (add(item)) result =
true\n }\n return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this
[MutableCollection].\n * \n\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n
return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also
contained in the given [elements] collection.\n * \n\npublic fun <T> MutableCollection<in T>.removeAll(elements:

```

```

Iterable<T>): Boolean {
 return removeAll(elements.convertToSetForSetOperationWith(this))
}

* Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.

*public fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {
 val set = elements.convertToSetForSetOperation()
 return set.isNotEmpty() && removeAll(set)
}

* Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.

*public fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {
 return elements.isNotEmpty() && removeAll(elements.convertToSetForSetOperation())
}

* Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.

*public fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {
 return retainAll(elements.convertToSetForSetOperationWith(this))
}

* Retains only elements of this [MutableCollection] that are contained in the given [elements] array.

*public fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {
 if (elements.isNotEmpty())
 return retainAll(elements.convertToSetForSetOperation())
 else
 return retainNothing()
}

* Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.

*public fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {
 val set = elements.convertToSetForSetOperation()
 if (set.isNotEmpty())
 return retainAll(set)
 else
 return retainNothing()
}

private fun MutableCollection<*>.retainNothing(): Boolean {
 val result = isEmpty()
 clear()
 return result
}

* Removes all elements from this [MutableIterable] that match the given [predicate].

* @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.

*public fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)

* Retains only elements of this [MutableIterable] that match the given [predicate].

* @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.

*public fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)

private fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
 var result = false
 with(iterator()) {
 while (hasNext())
 if (predicate(next()) == predicateResultToRemove)
 remove()
 result = true
 }
 return result
}

* Removes the element at the specified [index] from this list.

* In Kotlin one should use the [MutableList.removeAt] function instead.

* @Deprecated("Use removeAt(index) instead.", ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)

@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)

* Removes the first element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.

* @SinceKotlin("1.4")
* @WasExperimental(ExperimentalStdlibApi::class)
public fun <T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(0)

* Removes the first element from this mutable list and returns that removed element, or returns `null` if this list is empty.

* @SinceKotlin("1.4")
* @WasExperimental(ExperimentalStdlibApi::class)
public fun <T> MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)

* Removes the last element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.

* @SinceKotlin("1.4")
* @WasExperimental(ExperimentalStdlibApi::class)
public fun <T> MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(lastIndex)

* Removes the last element from this mutable list and returns that removed element, or returns `null` if this list is empty.

* @SinceKotlin("1.4")
* @WasExperimental(ExperimentalStdlibApi::class)
public fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)

* Removes all elements from this [MutableList] that match the given [predicate].

* @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.

*public fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,

```

```

true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n if (this !is RandomAccess)\n return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n var writeIndex: Int = 0\n for
(readIndex in 0..lastIndex) {\n val element = this[readIndex]\n if (predicate(element) ==
predicateResultToRemove)\n continue\n\n if (writeIndex != readIndex)\n this[writeIndex] =
element\n\n writeIndex++\n }\n if (writeIndex < size) {\n for (removeIndex in lastIndex downTo
writeIndex)\n removeAt(removeIndex)\n\n return true\n } else {\n return false\n }\n}\n\n"/**\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n override val size: Int get() = delegate.size\n override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n override val size: Int get() = delegate.size\n override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n override fun clear() = delegate.clear()\n override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n override fun add(index: Int, element: T) {\n
delegate.add(reversePositionIndex(index), element)\n }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in range [0..lastIndex].")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n if (index
in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range
[0..size].")\n\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the
original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n
*/\n\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n\n/**\n * Returns a reversed
mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed
one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*/\n\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:OptIn(ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n\n/**\n * Builds a
[Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n\n@SinceKotlin("1.3")\n\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n@SinceKotlin("1.3")\n\n@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> buildSequence(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence { iterator(builderAction)
}\n\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@SinceKotlin("1.3")\n\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>().->
Unit): Iterator<T> {\n val iterator = SequenceBuilderIterator<T>()\n iterator.nextStep =

```

```

block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n return
iterator\n}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function instead.",
ReplaceWith("iterator(builderAction)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit):
Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator],
provides [yield] and [yieldAll] suspension functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n *\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n /**\n * Yields a value to the [Iterator] being built and suspends\n * until the next value is
requested.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n *\n public abstract suspend fun yield(value:
T)\n\n /**\n * Yields all values from the `iterator` to the [Iterator] being built\n * and suspends until all these
values are iterated and the next one is requested.\n *\n * The sequence of values returned by the given iterator
can be potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
*\n public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n /**\n * Yields a collections of values to
the [Iterator] being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n
 * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n *\n public suspend fun
yieldAll(elements: Iterable<T>) {\n if (elements is Collection && elements.isEmpty()) return\n return
yieldAll(elements.iterator())\n }\n\n /**\n * Yields potentially infinite sequence of values to the [Iterator]
being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n * The
sequence can be potentially infinite.\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n *\n public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated("Use SequenceScope class instead.",
ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> =
SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\n\nprivate const
val State_ManyNotReady: State = 1\n\nprivate const val State_ManyReady: State = 2\n\nprivate const val State_Ready:
State = 3\n\nprivate const val State_Done: State = 4\n\nprivate const val State_Failed: State = 5\n\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n private var state =
State_NotReady\n private var nextValue: T? = null\n private var nextIterator: Iterator<T>? = null\n var
nextStep: Continuation<Unit>? = null\n\n override fun hasNext(): Boolean {\n while (true) {\n when
(state) {\n State_NotReady -> {}\n State_ManyNotReady -> {\n if
(nextIterator!!.hasNext()) {\n state = State_ManyReady\n return true\n }
else {\n nextIterator = null\n }\n } State_Done -> return false\n
 State_Ready, State_ManyReady -> return true\n else -> throw exceptionalState()\n }\n state
= State_Failed\n val step = nextStep!!\n nextStep = null\n step.resume(Unit)\n }\n }\n\n override fun next(): T {\n when (state) {\n State_NotReady, State_ManyNotReady -> return
nextNotReady()\n State_ManyReady -> {\n state = State_ManyNotReady\n return
nextIterator!!.next()\n }\n State_Ready -> {\n state = State_NotReady\n
 @Suppress("UNCHECKED_CAST")\n val result = nextValue as T\n nextValue = null\n
 return result\n }\n else -> throw exceptionalState()\n }\n }\n\n private fun nextNotReady(): T
{\n if (!hasNext()) throw NoSuchElementException() else return next()\n }\n\n private fun
exceptionalState(): Throwable = when (state) {\n State_Done -> NoSuchElementException()\n State_Failed
-> IllegalStateException("Iterator has failed.")\n else -> IllegalStateException("Unexpected state of the
iterator: $state")\n }\n\n override suspend fun yield(value: T) {\n nextValue = value\n state =
State_Ready\n return suspendCoroutineUninterceptedOrReturn { c -> {\n nextStep = c\n
COROUTINE_SUSPENDED\n }}\n }\n\n override suspend fun yieldAll(iterator: Iterator<T>) {\n if
(!iterator.hasNext()) return\n nextIterator = iterator\n state = State_ManyReady\n return

```

```

suspendCoroutineUninterceptedOrReturn { c ->\n nextStep = c\n COROUTINE_SUSPENDED\n }\n }\n // Completion continuation implementation\n override fun resumeWith(result: Result<Unit>) {\n result.getOrThrow() // just rethrow exception if it is there\n state = State_Done\n }\n override val context: CoroutineContext\n get() = EmptyCoroutineContext\n }\n /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n package kotlin.collections\n internal fun checkWindowSizeStep(size: Int, step: Int) {\n require(size > 0 && step > 0) {\n if (size != step)\n \"Both size $size and step $step must be greater than zero.\"\n else\n \"size $size must be greater than zero.\"\n }\n }\n internal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n checkWindowSizeStep(size, step)\n return Sequence {\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n }\n internal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n if (!iterator.hasNext()) return EmptyIterator\n return iterator<List<T>> {\n val bufferInitialCapacity = size.coerceAtMost(1024)\n val gap = step - size\n if (gap >= 0) {\n var buffer = ArrayList<T>(bufferInitialCapacity)\n var skip = 0\n for (e in iterator) {\n if (skip > 0) {\n skip -- 1; continue }\n buffer.add(e)\n if (buffer.size == size) {\n yield(buffer)\n if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n skip = gap\n }\n }\n if (buffer.isNotEmpty()) {\n if (partialWindows || buffer.size == size) yield(buffer)\n }\n }\n else {\n var buffer = RingBuffer<T>(bufferInitialCapacity)\n for (e in iterator) {\n buffer.add(e)\n if (buffer.isFull()) {\n if (buffer.size < size) {\n buffer = buffer.expanded(maxCapacity = size); continue }\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n }\n }\n if (partialWindows) {\n while (buffer.size > step) {\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n }\n if (buffer.isNotEmpty()) yield(buffer)\n }\n }\n }\n }\n internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n private var fromIndex: Int = 0\n private var _size: Int = 0\n fun move(fromIndex: Int, toIndex: Int) {\n checkRangeIndexes(fromIndex, toIndex, list.size)\n this.fromIndex = fromIndex\n this._size = toIndex - fromIndex\n }\n override fun get(index: Int): E {\n checkElementIndex(index, _size)\n return list[fromIndex + index]\n }\n override val size: Int get() = _size\n }\n /**\n * Provides ring buffer implementation.\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\n private class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n init {\n require(filledSize >= 0) {\n \"ring buffer filled size should not be negative but it is $filledSize\"\n }\n require(filledSize <= buffer.size) {\n \"ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}\"\n }\n }\n constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n private val capacity = buffer.size\n private var startIndex: Int = 0\n override var size: Int = filledSize\n private set\n override fun get(index: Int): T {\n checkElementIndex(index, size)\n @Suppress(\"UNCHECKED_CAST\")\n return buffer[startIndex.forward(index)] as T\n }\n fun isFull() = size == capacity\n override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n private var count = size\n private var index = startIndex\n override fun computeNext() {\n if (count == 0) {\n done()\n }\n else {\n @Suppress(\"UNCHECKED_CAST\")\n setNext(buffer[index] as T)\n index = index.forward(1)\n count--\n }\n }\n }\n }\n @Suppress(\"UNCHECKED_CAST\")\n override fun <T> toArray(array: Array<T>): Array<T> {\n val result: Array<T?> =\n if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n val size = this.size\n var widx = 0\n var idx = startIndex\n while (widx < size && idx < capacity) {\n result[widx] = buffer[idx] as T\n widx++\n idx++\n }\n idx = 0\n while (widx < size) {\n result[widx] = buffer[idx] as T\n widx++\n idx++\n }\n if (result.size > this.size) result[this.size] = null\n return result as Array<T>\n }\n override fun toArray(): Array<Any?> {\n return toArray(arrayOfNulls(size))\n }\n }\n /**\n * Creates a new ring buffer with the capacity equal to

```

```

the minimum of [maxCapacity] and 1.5 * [capacity].\n * The returned ring buffer contains the same elements as
this ring buffer.\n *\n fun expanded(maxCapacity: Int): RingBuffer<T> {\n val newCapacity = (capacity +
(capacity shr 1) + 1).coerceAtMost(maxCapacity)\n val newBuffer = if (startIndex == 0)
buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n return RingBuffer(newBuffer, size)\n
 }\n\n /**\n * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the
buffer\n *\n fun add(element: T) {\n if (isFull()) {\n throw IllegalStateException("ring buffer is
full")\n }\n buffer[startIndex.forward(size)] = element\n size++\n }\n\n /**\n * Removes [n]
first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to
remove\n *\n fun removeFirst(n: Int) {\n require(n >= 0) { "\"n shouldn't be negative but it is $n\"" }\n
require(n <= size) { "\"n shouldn't be greater than the buffer size: n = $n, size = $size\"" }\n if (n > 0) {\n
val start = startIndex\n val end = start.forward(n)\n if (start > end) {\n buffer.fill(null, start,
capacity)\n buffer.fill(null, 0, end)\n } else {\n buffer.fill(null, start, end)\n }\n
startIndex = end\n size -= n\n }\n }\n\n @Suppress("NOTHING_TO_INLINE")\n private
inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n\n\n /**\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// UByteArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n array: UByteArray, left: Int, right: Int): Int {\n var i = left\n
var j = right\n val pivot = array[(left + right) / 2]\n while (i <= j) {\n while (array[i] < pivot)\n i++\n
while (array[j] > pivot)\n j--\n if (i <= j) {\n val tmp = array[i]\n array[i] = array[j]\n
array[j] = tmp\n i++\n j--\n }\n }\n return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n array: UByteArray, left: Int, right: Int) {\n val index = partition(array, left, right)\n if (left < index
- 1)\n quickSort(array, left, index - 1)\n if (index < right)\n quickSort(array, index, right)\n}\n\n//
UShortArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n array: UShortArray, left: Int, right: Int): Int {\n var i = left\n
var j = right\n val pivot = array[(left + right) / 2]\n while (i <= j) {\n while (array[i] < pivot)\n i++\n
while (array[j] > pivot)\n j--\n if (i <= j) {\n val tmp = array[i]\n array[i] = array[j]\n
array[j] = tmp\n i++\n j--\n }\n }\n return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n array: UShortArray, left: Int, right: Int) {\n val index = partition(array, left, right)\n if (left <
index - 1)\n quickSort(array, left, index - 1)\n if (index < right)\n quickSort(array, index, right)\n}\n\n//
UIntArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n array: UIntArray, left: Int, right: Int): Int {\n var i = left\n
var j = right\n val pivot = array[(left + right) / 2]\n while (i <= j) {\n while (array[i] < pivot)\n i++\n
while (array[j] > pivot)\n j--\n if (i <= j) {\n val tmp = array[i]\n array[i] = array[j]\n
array[j] = tmp\n i++\n j--\n }\n }\n return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n array: UIntArray, left: Int, right: Int) {\n val index = partition(array, left, right)\n if (left < index
- 1)\n quickSort(array, left, index - 1)\n if (index < right)\n quickSort(array, index, right)\n}\n\n//
ULongArray

```

```

=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n array: ULongArray, left: Int, right: Int): Int {\n var i = left\n
var j = right\n val pivot = array[(left + right) / 2]\n while (i <= j) {\n while (array[i] < pivot)\n i++\n
while (array[j] > pivot)\n j--\n if (i <= j) {\n val tmp = array[i]\n array[i] = array[j]\n
array[j] = tmp\n i++\n j--\n }\n }\n return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n array: ULongArray, left: Int, right: Int) {\n val index = partition(array, left, right)\n if (left < index
- 1)\n quickSort(array, left, index - 1)\n if (index < right)\n quickSort(array, index, right)\n}\n\n//
Interfaces

```

```

=====
\n/**\n
 * Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray,
fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1),"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this
object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a
negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n */\n * This function
delegates to [Comparable.compareTo] and allows to call it in infix form.\n
*\n@InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int
=\n this.compareTo(other)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\n\nimport
kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is
used to opt-in for that feature\n * when declaring contracts of user functions.\n */\n * Any usage of a declaration
annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.contracts.ExperimentalContracts`.\n
*\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Ex
perimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n *
Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to
describe the contract of a function.\n */\n * This type is used as a receiver type of the lambda function passed to the
[contract] function.\n */\n * @see contract\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n /**\n
 * Describes a situation when a function returns normally, without any exceptions thrown.\n */\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n */\n * //
@sample samples.contracts.returnsContract\n @ContractsDsl public fun returns(): Returns\n\n /**\n *
Describes a situation when a function returns normally with the specified return [value].\n */\n * The possible
values of [value] are limited to `true`, `false` or `null`.\n */\n * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n */\n * // @sample samples.contracts.returnsTrueContract\n
// @sample samples.contracts.returnsFalseContract\n // @sample samples.contracts.returnsNullContract\n
@ContractsDsl public fun returns(value: Any?): Returns\n\n /**\n * Describes a situation when a function
returns normally with any value that is not `null`.\n */\n * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n */\n * // @sample
samples.contracts.returnsNotNullContract\n @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n
/**\n * Specifies that the function parameter [lambda] is invoked in place.\n */\n * This contract specifies
that:\n * 1. the function [lambda] can only be invoked during the call of the owner function,\n * and it won't be
invoked after that owner function call is completed;\n * 2. _(optionally)_ the function [lambda] is invoked the
amount of times specified by the [kind] parameter,\n * see the [InvocationKind] enum for possible values.\n
*\n * A function declaring the `callsInPlace` effect must be _inline_.\n */\n * // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n */\n @ContractsDsl public fun <R> callsInPlace(lambda:

```

Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n\n\n/\*\*\n \* Specifies how many times a function invokes its function parameter in place.\n \* See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n

```

*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic enum class InvocationKind {\n
/**\n * A function parameter will be invoked one time or not invoked at all.\n * // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT_MOST_ONCE,\n /**\n * A function parameter will be invoked one or more times.\n *\n * // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT_LEAST_ONCE,\n /**\n * A function parameter will be invoked exactly one time.\n *\n * // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n /**\n * A function parameter is called in place, but it's unknown how many times it can be called.\n *\n * // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n * @sample
samples.contracts.returnsContract\n * @sample samples.contracts.returnsTrueContract\n * @sample
samples.contracts.returnsFalseContract\n * @sample samples.contracts.returnsNullContract\n * @sample
samples.contracts.returnsNotNullContract\n * @sample samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n*\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n *\n * [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates [get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n */\n@SinceKotlin("1.3")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n /**\n * The key that defines *the* context interceptor.\n *\n * companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n /**\n * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n * This function is invoked by coroutines framework when needed and the resulting continuations are\n * cached internally per each instance of the original [continuation].\n *\n * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n *\n * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n * returned a different continuation instance.\n */\n public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n /**\n * Invoked for the continuation instance returned by [interceptContinuation] when the original\n * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n * had returned a different continuation instance from the one it was invoked with.\n *\n * Default implementation does nothing.\n *\n * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n */\n public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n /* do nothing by default\n */\n }\n\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):

```



```

E? {\n // getPolymorphicKey specialized for ContinuationInterceptor key\n
@OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<*, *>) {\n
@Suppress("UNCHECKED_CAST")\n return if (key.isSubKey(this.key)) key.tryCast(this) as? E else
null\n }\n @Suppress("UNCHECKED_CAST")\n return if (ContinuationInterceptor === key) this as
E else null\n }\n\n public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n
// minusPolymorphicKey specialized for ContinuationInterceptor key\n
@OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<*, *>) {\n return if
(key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n }\n return if
(ContinuationInterceptor === key) EmptyCoroutineContext else this\n }\n}\n", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n *
Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between
a set and a map.\n * Every element in this set has a unique [Key].\n */\n@SinceKotlin("1.3")\npublic interface
CoroutineContext {\n /**\n * Returns the element with the given [key] from this context or `null`.\n */\n
public operator fun <E : Element> get(key: Key<E>): E?\n\n /**\n * Accumulates entries of this context
starting with [initial] value and applying [operation]\n * from left to right to current accumulator value and each
element of this context.\n */\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n /**\n *
Returns a context containing elements from this context and elements from other [context].\n * The elements
from this context with the same key as in the other one are dropped.\n */\n public operator fun plus(context:
CoroutineContext): CoroutineContext =\n if (context === EmptyCoroutineContext) this else // fast path -- avoid
lambda creation\n context.fold(this) { acc, element ->\n val removed =
acc.minusKey(element.key)\n if (removed === EmptyCoroutineContext) element else {\n //
make sure interceptor is always last in the context (and thus is fast to get when present)\n val interceptor
= removed[ContinuationInterceptor]\n if (interceptor == null) CombinedContext(removed, element) else
{\n val left = removed.minusKey(ContinuationInterceptor)\n if (left ===
EmptyCoroutineContext) CombinedContext(element, interceptor) else\n
CombinedContext(CombinedContext(left, element), interceptor)\n }\n }\n }\n\n /**\n *
Returns a context containing elements from this context, but without an element with\n * the specified [key].\n
/\n public fun minusKey(key: Key<>): CoroutineContext\n\n /**\n * Key for the elements of
[CoroutineContext]. [E] is a type of element with this key.\n */\n public interface Key<E : Element>\n\n /**\n *
An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\n
*/\n public interface Element : CoroutineContext {\n /**\n * A key of this coroutine context element.\n
/\n public val key: Key<>\n\n public override operator fun <E : Element> get(key: Key<E>): E? =\n
@Suppress("UNCHECKED_CAST")\n if (this.key == key) this as E else null\n\n public override
fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n operation(initial, this)\n\n public override
fun minusKey(key: Key<*>): CoroutineContext =\n if (this.key == key) EmptyCoroutineContext else this\n
}\n}\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.Element\nimport
kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n
*/\n@SinceKotlin("1.3")\npublic abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n */\n\n * Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n * Example of polymorphic elements:\n */\n\n * open class
BaseElement : CoroutineContext.Element {\n * companion object Key : CoroutineContext.Key<BaseElement>\n
* override val key: CoroutineContext.Key<*> get() = Key\n * // It is important to use getPolymorphicKey and

```

```

minusPolymorphicKey\n * override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? = getPolymorphicElement(key)\n * override fun minusKey(key: CoroutineContext.Key<*>):
CoroutineContext = minusPolymorphicKey(key)\n * }\n * class DerivedElement : BaseElement() {\n *
companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?
DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n *
someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement
instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement
instance\n * ```\n * @param B base class of a polymorphic element\n * @param baseKey an instance of base key\n
* @param E element type associated with the current key\n * @param safeCast a function that can safely cast
abstract [CoroutineContext.Element] to the concrete [E] type\n * and return the element if it is a subtype
of [E] or `null` otherwise.\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n * baseKey: Key,\n * private val safeCast: (element:
Element) -> E?)\n *) : Key<E> {\n * private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n * internal fun tryCast(element:
Element): E? = safeCast(element)\n * internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n * }\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
* @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {\n * if (key is AbstractCoroutineContextKey<*, *>) {\n
* @Suppress("UNCHECKED_CAST")\n * return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n
* }\n * @Suppress("UNCHECKED_CAST")\n * return if (this.key === key) this as E else null\n * }\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or
`null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the
[key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
* @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public fun Element.minusPolymorphicKey(key: Key<*>):
CoroutineContext {\n * if (key is AbstractCoroutineContextKey<*, *>) {\n * return if (key.isSubKey(this.key)
&& key.tryCast(this) != null) EmptyCoroutineContext else this\n * }\n * return if (this.key === key)
EmptyCoroutineContext else this\n * }\n * An empty coroutine context.\n * @SinceKotlin("1.3")\n * public
object EmptyCoroutineContext : CoroutineContext, Serializable {\n * private const val serialVersionUID: Long =
0\n * private fun readResolve(): Any = EmptyCoroutineContext\n * public override fun <E : Element> get(key:
Key<E>): E? = null\n * public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n *
public override fun plus(context: CoroutineContext): CoroutineContext = context\n * public override fun minusKey(key:
Key<*>): CoroutineContext = this\n * public override fun hashCode(): Int = 0\n * public override fun toString():
String = "EmptyCoroutineContext"\n * }\n * //----- internal impl ----- \n * // this class is not
exposed, but is hidden inside implementations\n * // this is a left-biased list, so that `plus` works
naturally\n * @SinceKotlin("1.3")\n * internal class CombinedContext(\n * private val left: CoroutineContext,\n
* private val element: Element\n *) : CoroutineContext, Serializable {\n * override fun <E : Element> get(key:
Key<E>): E? {\n * var cur = this\n * while (true) {\n * cur.element[key]?.let { return it }\n * val next
= cur.left\n * if (next is CombinedContext) {\n * cur = next\n * } else {\n * return
next[key]\n * }\n * }\n * }\n * public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n
* operation(left.fold(initial, operation), element)\n * public override fun minusKey(key: Key<*>):
CoroutineContext {\n * element[key]?.let { return left }\n * val newLeft = left.minusKey(key)\n * return
when {\n * newLeft === left -> this\n * newLeft === EmptyCoroutineContext -> element\n * else ->
CombinedContext(newLeft, element)\n * }\n * }\n * private fun size(): Int {\n * var cur = this\n * var size
= 2\n * while (true) {\n * cur = cur.left as? CombinedContext ?: return size\n * size++\n * }\n * }\n * }\n

```

```

private fun contains(element: Element): Boolean =\n get(element.key) == element\n\n private fun
containsAll(context: CombinedContext): Boolean {\n var cur = context\n while (true) {\n if
(!contains(cur.element)) return false\n val next = cur.left\n if (next is CombinedContext) {\n
cur = next\n } else {\n return contains(next as Element)\n }\n }\n\n override fun
equals(other: Any?): Boolean =\n this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n\n override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n override
fun toString(): String =\n "[" + fold("") { acc, element ->\n if (acc.isEmpty()) element.toString() else
"$acc, $element"\n } + "]\n\n private fun writeReplace(): Any {\n val n = size()\n val elements =
arrayOfNulls<CoroutineContext>(n)\n var index = 0\n fold(Unit) { _, element -> elements[index++] =
element }\n check(index == n)\n @Suppress("UNCHECKED_CAST")\n return Serialized(elements
as Array<CoroutineContext>)\n }\n\n private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\n companion object {\n private const val serialVersionUID: Long = 0L\n }\n\n private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n }\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("IntrinsicsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.*\nimport
kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either
suspends\n * currently running coroutine or returns result immediately without suspension.\n * If the [block]
returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n *
resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes
available to resume the computation.\n * Otherwise, the return value of the [block] must have a type assignable
to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the
[Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as
`Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend
function's author.\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's
thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's
[CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n *
[Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Note that it is not
recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions
synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way
to obtain current\n * continuation instance.\n
*/\n\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")\npublic suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n contract {
callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n throw NotImplementedError("Implementation of
suspendCoroutineUninterceptedOrReturn is intrinsic")\n}\n\n/**\n * This value is used as a return value of
[suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will
not return any result immediately.\n * Note: this value should not be used in general code. Using it outside
of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited
to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified
behavior of the code.\n */\n\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with
multifile IntrinsicsKt class\n@SinceKotlin("1.3")\npublic val COROUTINE_SUSPENDED: Any get() =
CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1.
It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support
enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what
package they come from\n@SinceKotlin("1.3")\n@PublishedApi // This class is Published API via serialized

```

representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons {  
COROUTINE\_SUSPENDED, UNDECIDED, RESUMED }\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and  
Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that  
can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.experimental\n\n/\*\* Performs a bitwise AND  
operation between the two values. \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun  
Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/\*\* Performs a bitwise OR operation  
between the two values. \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun  
Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/\*\* Performs a bitwise XOR operation  
between the two values. \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun  
Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/\*\* Inverts the bits in this value.  
\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =  
(this.toInt().inv()).toByte()\n\n/\*\* Performs a bitwise AND operation between the two values.  
\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short =  
(this.toInt() and other.toInt()).toShort()\n\n/\*\* Performs a bitwise OR operation between the two values.  
\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short =  
(this.toInt() or other.toInt()).toShort()\n\n/\*\* Performs a bitwise XOR operation between the two values.  
\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short =  
(this.toInt() xor other.toInt()).toShort()\n\n/\*\* Inverts the bits in this value.  
\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =  
(this.toInt().inv()).toShort()\n\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language  
contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n \*/\n\npackage kotlin.experimental\n\n/\*\*\n \* The experimental marker for type  
inference augmenting annotations.\n \* Any usage of a declaration annotated with  
`@ExperimentalTypeInference` must be accepted either by\n \* annotating that usage with the [OptIn] annotation,  
e.g. `@OptIn(ExperimentalTypeInference::class)`,\n \* or by using the compiler argument `-Xopt-  
in=kotlin.experimental.ExperimentalTypeInference`. \n \*/\n@Suppress("DEPRECATION")\n@Experimental(level  
= Experimental.Level.ERROR)\n@RequiresOptIn(level =  
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(A  
nnotationTarget.ANNOTATION\_CLASS)\n@SinceKotlin("1.3")\npublic annotation class  
ExperimentalTypeInference\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language  
contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n \*/\n\npackage kotlin.internal\n\n/\*\*\n \* Specifies that the corresponding type should be  
ignored during type inference.\n \*/\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class  
NoInfer\n\n/\*\*\n \* Specifies that the constraint built for the type during type inference should be an equality one.\n \*/\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class  
Exact\n\n/\*\*\n \* Specifies that a corresponding member has the lowest priority in overload resolution.\n \*/\n@Target(AnnotationTarget.FUNCTION,  
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class  
LowPriorityInOverloadResolution\n\n/\*\*\n \* Specifies that the corresponding member has the highest priority in  
overload resolution. Effectively this means that\n \* an extension annotated with this annotation will win in overload  
resolution over a member with the same signature.\n \*/\n@Target(AnnotationTarget.FUNCTION,  
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class  
HidesMembers\n\n/\*\*\n \* The value of this type parameter should be mentioned in input types (argument types,  
receiver type or expected type).\n \*/\n@Target(AnnotationTarget.TYPE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal  
annotation class OnlyInputTypes\n\n/\*\*\n \* Specifies that this function should not be called directly without  
inlining\n \*/\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY,

```

AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n
*/\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`),
referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding
argument is passed.\n
*/\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceK
otlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is
only completely supported since the specified version.\n *\n * The Kotlin compiler of an earlier version is going to
report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via
[errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be
specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported,
HIDDEN means that the declaration is going to be removed from resolution completely.\n *\n * [versionKind]
specifies which version should be compared with the [version] value, when compiling the usage of the annotated
declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported,
so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version.
Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION],
[RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the
actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n *
Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a
requirement\n * on the language version.\n *\n * This annotation is erased at compile time; its arguments are stored
in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS,
AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.
2")\ninternal annotation class RequireKotlin(\n val version: String,\n val message: String = "",\n val level:
DeprecationLevel = DeprecationLevel.ERROR,\n val versionKind: RequireKotlinVersionKind =
RequireKotlinVersionKind.LANGUAGE_VERSION,\n val errorCode: Int = -1)\n\n/**\n * The kind of the
version that is required by [RequireKotlin].\n */\n@SinceKotlin("1.2")\ninternal enum class
RequireKotlinVersionKind {\n LANGUAGE_VERSION,\n COMPILER_VERSION,\n
API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing
function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation
class ContractsDsl\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n */\npublic object Delegates {\n /**\n * Returns a property delegate for a read/write
property with a non-`null` value that is initialized not during\n * object construction time but at a later time.
Trying to read the property before the initial value has been\n * assigned results in an exception.\n */\n *
@sample samples.properties.Delegates.notNullDelegate\n */\n public fun <T : Any> notNull():
ReadWriteProperty<Any?, T> = NotNullVar()\n\n /**\n * Returns a property delegate for a read/write property
that calls a specified callback function when changed.\n * @param initialValue the initial value of the property.\n
 * @param onChange the callback which is called after the change of the property is made. The value of the
property\n * has already been changed when this callback is invoked.\n */\n * @sample
samples.properties.Delegates.observableDelegate\n */\n public inline fun <T> observable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n
ReadWriteProperty<Any?, T> =\n object : ObservableProperty<T>(initialValue) {\n override fun
afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\n

```

```

}

/**
 * Returns a property delegate for a read/write property that calls a specified callback function when
 * changed,
 * allowing the callback to veto the modification.
 * @param initialValue the initial value of the
 * property.
 * @param onChange the callback which is called before a change to the property value is attempted.
 * The value of the property hasn't been changed yet, when this callback is invoked.
 * If the callback returns
 * `true` the value of the property is being set to the new value,
 * and if the callback returns `false` the new value
 * is discarded and the property remains its old value.
 *
 * @sample
 * samples.properties.Delegates.vetoableDelegate
 *
 * @sample
 * samples.properties.Delegates.throwVetoableDelegate
 */
public inline fun <T> vetoable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):
ReadWriteProperty<Any?, T> =
 object : ObservableProperty<T>(initialValue) {
 override fun
 beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
 newValue)
 }

private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {
 private var
 value: T? = null
 public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
 return value
 ?: throw IllegalStateException("Property ${property.name} should be initialized before get.")
 }
 public
 override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
 this.value = value
 }
}

"/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of
 * this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.properties
import kotlin.reflect.KProperty

/**
 * Base interface that can be used for
 * implementing property delegates of read-only properties.
 * This is provided only for convenience; you don't
 * have to extend this interface
 * as long as your property delegate has methods with the same signatures.
 *
 * @param T the type of object which owns the delegated property.
 * @param V the type of the property value.
 */
public fun interface ReadOnlyProperty<in T, out V> {
 /**
 * Returns the value of the property for the
 * given object.
 * @param thisRef the object for which the value is requested.
 * @param property the
 * metadata for the property.
 * @return the property value.
 */
 public operator fun getValue(thisRef: T,
property: KProperty<*>): V

/**
 * Base interface that can be used for implementing property delegates of
 * read-write properties.
 * This is provided only for convenience; you don't have to extend this interface
 * as
 * long as your property delegate has methods with the same signatures.
 *
 * @param T the type of object which
 * owns the delegated property.
 * @param V the type of the property value.
 */
public interface
ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {
 /**
 * Returns the value of the property for the
 * given object.
 * @param thisRef the object for which the value is requested.
 * @param property the
 * metadata for the property.
 * @return the property value.
 */
 public override operator fun
 getValue(thisRef: T, property: KProperty<*>): V

 /**
 * Sets the value of the property for the given
 * object.
 * @param thisRef the object for which the value is requested.
 * @param property the metadata for
 * the property.
 * @param value the value to set.
 */
 public operator fun setValue(thisRef: T, property:
KProperty<*>, value: V)

/**
 * Base interface that can be used for implementing property delegate
 * providers.
 * This is provided only for convenience; you don't have to extend this interface
 * as
 * long as your
 * delegate provider has a method with the same signature.
 *
 * @param T the type of object which owns the
 * delegated property.
 * @param D the type of property delegates this provider provides.
 */
@SinceKotlin("1.4")
public fun interface PropertyDelegateProvider<in T, out D> {
 /**
 * Returns the
 * delegate of the property for the given object.
 * This function can be used to extend the logic of creating
 * the object (e.g. perform validation checks)
 * to which the property implementation is delegated.
 *
 * @param thisRef the object for which property delegate is requested.
 * @param property the metadata for the
 * property.
 * @return the property delegate.
 */
 public operator fun provideDelegate(thisRef: T, property:
KProperty<*>): D
}

"/**
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */
package kotlin.properties
import kotlin.reflect.KProperty

/**
 * Implements the core logic of a property delegate for a read/write property that calls callback functions when
 * changed.
 * @param initialValue the initial value of the property.
 */
public abstract class

```

```

ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n private var value = initialValue\n\n /**\n * The callback which is called before a change to the property value is attempted.\n * The value of the property hasn't been changed yet, when this callback is invoked.\n * If the callback returns `true` the value of the property is being set to the new value,\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\n *\n * protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n /**\n * The callback which is called after the change of the property is made. The value of the property\n * has already been changed when this callback is invoked.\n *\n * protected open fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {\n\n public override fun getValue(thisRef: Any?, property: KProperty<*>): V {\n return value\n }\n\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n val oldValue = this.value\n if (!beforeChange(property, oldValue, value)) {\n return\n }\n this.value = value\n afterChange(property, oldValue, value)\n }\n}"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("PackageDirectoryMismatch")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * class Login(val username: String)\n * val defaultLogin = Login("Admin")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName get() = defaultLogin.username\n *\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n return get()\n}\n\n/**\n * An extension operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of the same type [V].\n *\n * @receiver A property reference to a mutable property of type [V].\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin = Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n * var defaultLoginAttempts: Int\n * get() = defaultLogin.incorrectAttemptCounter\n * set(value) {\n * defaultLogin.incorrectAttemptCounter = value\n * }\n *\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n set(value)\n}\n\n/**\n * An extension operator that allows delegating a read-only member or extension property of type [V]\n * to a property reference to a member or extension property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * class Login(val username: String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n *\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T, V>.getValue(thisRef: T, property: KProperty<*>): V {\n return get(thisRef)\n}\n\n/**\n * An extension operator that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member or extension mutable property of the same type [V].\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n * get() = this.incorrectAttemptCounter\n * set(value) {\n * this.incorrectAttemptCounter = value\n * }\n *\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T, V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n set(thisRef, value)\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport

```

```

kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n */\n@SinceKotlin("1.3")\npublic abstract class Random {\n\n /**\n * Gets the next random [bitCount] number of bits.\n *\n * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n *\n * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n *\n * @sample samples.random.Randoms.nextBits\n */\n public abstract fun nextBits(bitCount: Int): Int\n\n /**\n * Gets the next random `Int` from the random number generator.\n *\n * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n *\n * @sample samples.random.Randoms.nextInt\n */\n public open fun nextInt(): Int = nextBits(32)\n\n /**\n * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n *\n * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be positive.\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextIntFromUntil\n */\n public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n /**\n * Gets the next random `Int` from the random number generator in the specified range.\n *\n * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n *\n * @sample samples.random.Randoms.nextIntFromUntil\n */\n public open fun nextInt(from: Int, until: Int): Int {\n checkRangeBounds(from, until)\n val n = until - from\n if (n > 0 || n == Int.MIN_VALUE)\n {\n val rnd = if (n and -n == n) {\n val bitCount = fastLog2(n)\n nextBits(bitCount)\n } else {\n var v: Int\n do {\n val bits = nextInt().ushr(1)\n v = bits % n\n } while (bits - v + (n - 1) < 0)\n v\n }\n return from + rnd\n } else {\n while (true) {\n val rnd = nextInt()\n if (rnd in from until until) return rnd\n }\n }\n }\n\n /**\n * Gets the next random `Long` from the random number generator.\n *\n * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n *\n * @sample samples.random.Randoms.nextLong\n */\n public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n /**\n * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n *\n * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be positive.\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextLongFromUntil\n */\n public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n /**\n * Gets the next random `Long` from the random number generator in the specified range.\n *\n * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n *\n * @sample samples.random.Randoms.nextLongFromUntil\n */\n public open fun nextLong(from: Long, until: Long): Long {\n checkRangeBounds(from, until)\n val n = until - from\n if (n > 0) {\n val rnd: Long\n if (n and -n == n) {\n val nLow = n.toInt()\n val nHigh = (n ushr 32).toInt()\n rnd = when {\n nLow != 0 -> {\n val bitCount = fastLog2(nLow)\n // toUInt().toLong()\n nextBits(bitCount).toLong() and 0xFFFF_FFFF\n }\n nHigh == 1 -> {\n // toUInt().toLong()\n nextInt().toLong() and 0xFFFF_FFFF\n }\n else -> {\n val bitCount = fastLog2(nHigh)\n nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n }\n }\n } else {\n var v: Long\n do {\n val bits = nextLong().ushr(1)\n v = bits % n\n } while (bits - v + (n - 1) < 0)\n rnd = v\n }\n return from + rnd\n } else {\n while (true) {\n val rnd = nextLong()\n if (rnd in from until until) return rnd\n }\n }\n }\n\n /**\n * Gets the next random [Boolean] value.\n *\n * @sample samples.random.Randoms.nextBoolean\n */\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n}

```



```

/**\n * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n
*\n * @sample samples.random.Randoms.nextDouble\n */\n public open fun nextDouble(): Double =
doubleFromParts(nextBits(26), nextBits(27))\n\n /**\n * Gets the next random non-negative `Double` from the
random number generator less than the specified [until] bound.\n *\n * Generates a `Double` random value
uniformly distributed between 0 (inclusive) and [until] (exclusive).\n *\n * @throws IllegalArgumentException
if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n
public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n /**\n * Gets the next random
`Double` from the random number generator in the specified range.\n *\n * Generates a `Double` random value
uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * [from]
and [until] must be finite otherwise the behavior is unspecified.\n *\n * @throws IllegalArgumentException if
[from] is greater than or equal to [until].\n *\n * @sample samples.random.Randoms.nextDoubleFromUntil\n
*/\n public open fun nextDouble(from: Double, until: Double): Double {\n checkRangeBounds(from, until)\n
 val size = until - from\n val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n val r1 =
nextDouble() * (until / 2 - from / 2)\n from + r1 + r1\n } else {\n from + nextDouble() * size\n
 }\n return if (r >= until) until.nextDown() else r\n }\n\n /**\n * Gets the next random [Float] value
uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample
samples.random.Randoms.nextFloat\n */\n public open fun nextFloat(): Float = nextBits(24) / (1 shl
24).toFloat()\n\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and
ending [toIndex] exclusive\n * with random bytes.\n *\n * @return [array] with the subrange filled with
random bytes.\n *\n * @sample samples.random.Randoms.nextBytes\n */\n public open fun
nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n require(fromIndex in
0..array.size && toIndex in 0..array.size) { "\"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range:
0..${array.size}.\" }\n require(fromIndex <= toIndex) { "\"fromIndex ($fromIndex) must be not greater than
toIndex ($toIndex).\" }\n val steps = (toIndex - fromIndex) / 4\n var position = fromIndex\n repeat(steps) {\n val v = nextInt()\n array[position] = v.toByte()\n array[position + 1] =
v.ushr(8).toByte()\n array[position + 2] = v.ushr(16).toByte()\n array[position + 3] =
v.ushr(24).toByte()\n position += 4\n }\n val remainder = toIndex - position\n val vr =
nextInt(remainder * 8)\n for (i in 0 until remainder) {\n array[position + i] = vr.ushr(i * 8).toByte()\n
 }\n return array\n }\n\n /**\n * Fills the specified byte [array] with random bytes and returns it.\n *\n
* @return [array] filled with random bytes.\n *\n * @sample samples.random.Randoms.nextBytes\n */\n
public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n /**\n * Creates a
byte array of the specified [size], filled with random bytes.\n *\n * @sample
samples.random.Randoms.nextBytes\n */\n public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))\n\n\n /**\n * The default random number generator.\n *\n * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.\n *\n * @sample
samples.random.Randoms.defaultRandom\n */\n companion object Default : Random(), Serializable {\n
private val defaultRandom: Random = defaultPlatformRandom()\n private object Serialized : Serializable {\n
 private const val serialVersionUID = 0L\n private fun readResolve(): Any = Random\n }\n\n
private fun writeReplace(): Any = Serialized\n override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)\n override fun nextInt(): Int = defaultRandom.nextInt()\n override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)\n override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)\n\n override fun nextLong(): Long = defaultRandom.nextLong()\n
override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n override fun nextLong(from:
Long, until: Long): Long = defaultRandom.nextLong(from, until)\n\n override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n\n override fun nextDouble(): Double = defaultRandom.nextDouble()\n
override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n override fun
nextFloat(): Float = defaultRandom.nextFloat()\n\n override fun nextBytes(array: ByteArray): ByteArray =

```

```

defaultRandom.nextBytes(array)\n override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray =\n defaultRandom.nextBytes(array, fromIndex, toIndex)\n } }\n\n/**\n * Returns a repeatable
random number generator seeded with the given [seed] `Int` value.\n *\n * Two generators with the same seed
produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of
Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values
different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not
invoke it from multiple threads without proper synchronization.\n *\n * @sample
samples.random.Randoms.seededRandom\n *\n@SinceKotlin("1.3")\npublic fun Random(seed: Int): Random =
XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the
given [seed] `Long` value.\n *\n * Two generators with the same seed produce the same sequence of values within
the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this
seeded number generator so that it will return\n * a sequence of values different from the current one for a given
seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without
proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n
*\n@SinceKotlin("1.3")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified
[range].\n *\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start`
inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.3")\npublic fun Random.nextInt(range: IntRange): Int = when {\n range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n
else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified
[range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from
`range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is
empty.\n *\n@SinceKotlin("1.3")\npublic fun Random.nextLong(range: LongRange): Long = when {\n range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n range.last <
Long.MAX_VALUE -> nextLong(range.first, range.last + 1)\n range.first > Long.MIN_VALUE ->
nextLong(range.first - 1, range.last) + 1\n else -> nextLong()\n}\n\n\ninternal expect fun
defaultPlatformRandom(): Random\n\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\n\ninternal
fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n/**\n * Takes upper [bitCount] bits (0..32) from
this number. *\n\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n this.ushr(32 - bitCount) and (-
bitCount).shr(31)\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {\n
 boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until >
from) {\n boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Double, until: Double) =
require(until > from) {\n boundsErrorMessage(from, until) }\n\ninternal fun boundsErrorMessage(from: Any, until:
Any) = "Random range is empty: [$from, $until].\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@package kotlin.random\n\n/**\n * Gets the next random [UInt]
from the random number generator.\n *\n * Generates a [UInt] random value uniformly distributed between
[UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextUInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number
generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if
[until] is zero.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)\n\n/**\n * Gets the next random [UInt] from the random
number generator in the specified range.\n *\n * Generates a [UInt] random value uniformly distributed between the

```

```

specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is
greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextIntUInt(from: UInt, until: UInt): UInt {\n checkUIntRangeBounds(from, until)\n\n val signedFrom =
from.toInt() xor Int.MIN_VALUE\n val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n return signedResult.toUInt()\n}\n\n/**\n * Gets the next
random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextIntUInt(range: UIntRange): UInt = when {\n range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n range.last < UInt.MAX_VALUE ->
nextIntUInt(range.first, range.last + 1u)\n range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *
Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws
IllegalArgumentException if [until] is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from
the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n checkULongRangeBounds(from, until)\n\n val
signedFrom = from.toLong() xor Long.MIN_VALUE\n val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n\n return
signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in
the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n *
from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range]
is empty.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n range.last < ULong.MAX_VALUE -
> nextULong(range.first, range.last + 1u)\n range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u,
range.last) + 1u\n else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes
and returns it.\n *\n * @return [array] filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray):
UByteArray {\n nextBytes(array.asByteArray())\n return array\n}\n\n/**\n * Creates an unsigned byte array of
the specified [size], filled with random bytes.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the
specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random
UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n nextBytes(array.asByteArray(), fromIndex,
toIndex)\n return array\n}\n\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >

```

```

from) { boundsErrorMessage(from, until) } \n internal fun checkULongRangeBounds(from: ULong, until: ULong) =
require(until > from) { boundsErrorMessage(from, until) } \n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n/**\n * Random number generator,
using Marsaglia's "xorwow" algorithm\n * Cycles after 2^192 - 2^32 repetitions.\n * For more details, see
Marsaglia, George (July 2003). "Xorshift RNGs". Journal of Statistical Software. 8 (14).
doi:10.18637/jss.v008.i14\n * Available at https://www.jstatsoft.org/v08/i14/paper\n * \n\ninternal class
XorWowRandom internal constructor(\n private var x: Int,\n private var y: Int,\n private var z: Int,\n private
var w: Int,\n private var v: Int,\n private var addend: Int)\n : Random(), Serializable {\n\n internal
constructor(seed1: Int, seed2: Int) : \n this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr
4))\n\n init {\n require((x or y or z or w or v) != 0) {"Initial state must have at least one non-zero element."
}\n\n // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\n
repeat(64) { nextInt() }\n\n override fun nextInt(): Int {\n // Equivalent to the xorwow algorithm\n //
From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n var t = x\n t = t xor (t ushr 2)\n x
= y\n y = z\n z = w\n val v0 = v\n w = v0\n t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n v =
t\n addend += 362437\n return t + addend\n }\n\n override fun nextBits(bitCount: Int): Int =\n
nextInt().takeUpperBits(bitCount)\n\n private companion object {\n private const val serialVersionUID: Long
= 0L\n }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage
kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableRange<T :
Comparable<T>>(\n override val start: T,\n override val endInclusive: T)\n : ClosedRange<T> {\n\n override
fun equals(other: Any?): Boolean {\n return other is ComparableRange<*> && (isEmpty() && other.isEmpty())
||\n start == other.start && endInclusive == other.endInclusive\n }\n\n override fun hashCode(): Int
{\n return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\n }\n\n override fun
toString(): String = "$start..$endInclusive"\n}\n\n/**\n * Creates a range from this [Comparable] value to the
specified [that] value.\n * This value needs to be smaller than or equal to [that] value, otherwise the returned
range will be empty.\n * @sample samples.ranges.Ranges.rangeFromComparable\n */\npublic operator fun <T :
Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\n\n/**\n * Represents a
range of floating point numbers.\n * Extends [ClosedRange] interface providing custom operation
[lessThanOrEquals] for comparing values of range domain type.\n * This interface is implemented by floating
point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\n * achieve IEEE-754 comparison order
instead of total order of floating point numbers.\n */\n@SinceKotlin("1.1")\npublic interface
ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\n override fun contains(value: T): Boolean =
lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\n override fun isEmpty(): Boolean =
!lessThanOrEquals(start, endInclusive)\n\n /**\n * Compares two values of range domain type and returns true
if first is less than or equal to second.\n */\n fun lessThanOrEquals(a: T, b: T): Boolean\n}\n\n/**\n * A
closed range of values of type `Double`.\n * Numbers are compared with the ends of this range according to
IEEE-754.\n */\nprivate class ClosedDoubleRange(\n start: Double,\n endInclusive: Double)\n :
ClosedFloatingPointRange<Double> {\n private val _start = start\n private val _endInclusive = endInclusive\n
override val start: Double get() = _start\n override val endInclusive: Double get() = _endInclusive\n\n
override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n override fun contains(value: Double): Boolean
= value >= _start && value <= _endInclusive\n\n override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n
override fun equals(other: Any?): Boolean {\n return other is ClosedDoubleRange && (isEmpty() &&
other.isEmpty()) ||\n _start == other._start && _endInclusive == other._endInclusive\n }\n\n override
fun hashCode(): Int {\n return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n
}\n\n override fun toString(): String = "$_start..$_endInclusive"\n}\n\n/**\n * Creates a range from this [Double]
value to the specified [that] value.\n * Numbers are compared with the ends of this range according to IEEE-

```

```

754.\n * @sample samples.ranges.Ranges.rangeFromDouble\n */\n@SinceKotlin("1.1")\npublic operator fun
Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n/**\n *
A closed range of values of type `Float`.\n */\n * Numbers are compared with the ends of this range according to
IEEE-754.\n */\nprivate class ClosedFloatRange(\n start: Float,\n endInclusive: Float)\n :
ClosedFloatingPointRange<Float> {\n private val _start = start\n private val _endInclusive = endInclusive\n
override val start: Float get() = _start\n override val endInclusive: Float get() = _endInclusive\n\n override fun
lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n override fun contains(value: Float): Boolean = value
>= _start && value <= _endInclusive\n\n override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n
override fun equals(other: Any?): Boolean {\n return other is ClosedFloatRange && (isEmpty() &&
other.isEmpty()) ||\n _start == other._start && _endInclusive == other._endInclusive\n }\n\n override
fun hashCode(): Int {\n return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n
}\n\n override fun toString(): String = "$_start..$_endInclusive"\n}\n\n/**\n * Creates a range from this [Float]
value to the specified [that] value.\n */\n * Numbers are compared with the ends of this range according to IEEE-
754.\n */\n * @sample samples.ranges.Ranges.rangeFromFloat\n */\n@SinceKotlin("1.1")\npublic operator fun
Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n\n/**\n * Returns
`true` if this iterable range contains the specified [element].\n */\n * Always returns `false` if the [element] is `null`.\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n element != null &&
contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n if (!isPositive)
throw IllegalArgumentException("Step must be positive, was: $step.")\n}\n\n"/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("KClasses")\n@file:Suppress("UNCHECKED_CAST")\n\npackage
kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the
class represented by this [KClass] object.\n */\n * Throws an exception if the value is `null` or if it is not an instance of
this class.\n */\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on
JVM.\n */\n * @see [KClass.isInstance]\n */\n * @see [KClass.safeCast]\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n if (!isInstance(value)) throw ClassCastException("Value
cannot be cast to $qualifiedOrSimpleName")\n return value as T\n}\n\n// TODO: replace with qualifiedName
when it is fully supported in K/JS\n\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n\n/**\n * Casts
the given [value] to the class represented by this [KClass] object.\n */\n * Returns `null` if the value is `null` or if it is not
an instance of this class.\n */\n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n */\n * @see [KClass.isInstance]\n */\n * @see [KClass.cast]\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.safeCast(value: Any?): T? {\n return if (isInstance(value)) value as T else
null\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.reflect\n\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n\n/**\n * Represents
a type projection. Type projection is usually the argument to another type in a type usage.\n */\n * For example, in the
type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class
`Number`.\n */\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional
variance.\n */\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-
projections)\n */\n * for more information.\n */\n\n@SinceKotlin("1.1")\npublic data class KTypeProjection
constructor(\n /**\n * The use-site variance specified in the projection, or `null` if this is a star projection.\n
*/\n public val variance: KVariance?,\n /**\n * The type specified in the projection, or `null` if this is a star
projection.\n */\n public val type: KType?) {\n\n init {\n require((variance == null) == (type == null))\n
\n if (variance == null)\n "Star projection must have no type specified." else\n

```

```

\The projection variance $variance requires type to be specified.\n }\n }\n\n override fun toString():
String = when (variance) {\n null -> **\n KVariance.INVARIANT -> type.toString()\n
KVariance.IN -> \in $type\`\n KVariance.OUT -> \out $type\`\n }\n\n public companion object {\n //
provided for compiler access\n @JvmField\n @PublishedApi\n internal val star: KTypeProjection =
KTypeProjection(null, null)\n\n /**\n * Star projection, denoted by the `*` character.\n * For example,
in the type `KClass<*>`, `*` is the star projection.\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * for more
information.\n */\n public val STAR: KTypeProjection get() = star\n\n /**\n * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n * without any use-site variance
modifiers applied to it.\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n */\n @JvmStatic\n public fun invariant(type: KType):
KTypeProjection =\n KTypeProjection(KVariance.INVARIANT, type)\n\n /**\n * Creates a
contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n * For example, in the
type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n */\n
 @JvmStatic\n public fun contravariant(type: KType): KTypeProjection =\n
KTypeProjection(KVariance.IN, type)\n\n /**\n * Creates a covariant projection of a given type, denoted
by the `out` modifier applied to a type.\n * For example, in the type `Array<out Number>`, `out Number` is a
covariant projection of the type of class `Number`.\n */\n @JvmStatic\n public fun covariant(type:
KType): KTypeProjection =\n KTypeProjection(KVariance.OUT, type)\n }\n\n }"/\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n *
Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type
in a projection (*use-site variance*).\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n *
@see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n\n@SinceKotlin("1.1")\nenum class KVariance
{\n /**\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n
*/\n INVARIANT,\n\n /**\n * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.\n */\n IN,\n\n /**\n * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.\n */\n OUT,\n }"/\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime
representation of the given reified type [T] as an instance of [KType].\n *\n * Note that on JVM, the created type has
no annotations ([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated.
Support for type annotations might be added in a future version.\n *\n *
@SinceKotlin("1.6")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\n\npublic inline fun <reified T>
typeOf(): KType =\n throw UnsupportedOperationException("This function is implemented as an intrinsic on all
supported platforms.")\n }"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n
@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\n\nexpect interface
Appendable {\n /**\n * Appends the specified character [value] to this Appendable and returns this instance.\n
*/\n * @param value the character to append.\n */\n fun append(value: Char): Appendable\n\n /**\n *
Appends the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param
value the character sequence to append. If [value] is `null`, then the four characters `null` are appended to this
Appendable.\n */\n fun append(value: CharSequence?): Appendable\n\n /**\n * Appends a subsequence of
the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the
character sequence from which a subsequence is appended. If [value] is `null`,\n * then characters are appended

```

```

as if [value] contained the four characters `\"null\"`.
 * @param startIndex the beginning (inclusive) of the
subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of the [value] character sequence indices or when `startIndex > endIndex`.
fun append(value:
CharSequence?, startIndex: Int, endIndex: Int): Appendable
}

/** Appends a subsequence of the specified
character sequence [value] to this Appendable and returns this instance.
 * @param value the character
sequence from which a subsequence is appended.
 * @param startIndex the beginning (inclusive) of the
subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T : Appendable>
T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {
 @Suppress("UNCHECKED_CAST")
 return append(value, startIndex, endIndex) as T
}

/** Appends
all arguments to the given [Appendable].
public fun <T : Appendable> T.append(vararg value:
CharSequence?): T {
 for (item in value)
 append(item)
 return this
}

/** Appends a line feed
character (`\n`) to this Appendable.
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun
Appendable.appendLine(): Appendable = append("\n")

/** Appends value to the given Appendable and a line
feed character (`\n`) after it.
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()

/** Appends value
to the given Appendable and a line feed character (`\n`) after it.
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun Appendable.appendLine(value: Char):
Appendable = append(value).appendLine()

internal fun <T> Appendable.appendElement(element: T,
transform: ((T) -> CharSequence)?) {
 when {
 transform != null -> append(transform(element))
 element is CharSequence -> append(element)
 element is Char -> append(element)
 else ->
append(element.toString())
 }
}

/** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package
kotlin.text

/** Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes
the first and the last lines if they are blank (notice difference blank vs empty).
Doesn't
affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.
Doesn't preserve the
original line endings.
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is
`|` (pipe character).
 * @sample samples.text.Strings.trimMargin
 * @see trimIndent
 * @see
kotlin.text.isWhitespace

public fun String.trimMargin(marginPrefix: String = "|"): String =
replaceIndentByMargin("|", marginPrefix)

/** Detects indent by [marginPrefix] as it does [trimMargin] and
replace it with [newIndent].
 * @param marginPrefix non-blank string, which is used as a margin delimiter.
Default is `|` (pipe character).
public fun String.replaceIndentByMargin(newIndent: String = "|",
marginPrefix: String = "|"): String {
 require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank
string." }
 val lines = lines()
 return lines.reindent(length + newIndent.length * lines.size,
getIndentFunction(newIndent), { line ->
 val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }
 when {
 firstNonWhitespaceIndex == -1 -> null
 line.startsWith(marginPrefix,
firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)
 else -> null
 }
 })
}

/** Detects a common minimal indent of all the input lines, removes it from every line and
also removes the first and the last
lines if they are blank (notice difference blank vs empty).
Note that
blank lines do not affect the detected indent level.
In case if there are non-blank lines with no leading
whitespace characters (no indent at all) then the common indent is 0, and therefore this function doesn't change
the indentation.
Doesn't preserve the original line endings.
 * @sample
samples.text.Strings.trimIndent
 * @see trimMargin
 * @see kotlin.text.isBlank

public fun

```

```

String.trimIndent(): String = replaceIndent("\\n")\n\n/**\n * Detects a common minimal indent like it does
[trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String
= "\\n"): String {\n val lines = lines()\n val minCommonIndent = lines\n .filter(String::isNotBlank)\n .map(String::indentWidth)\n .minOrNull() ?: 0\n return lines.reindent(length + newIndent.length *
lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent]
to every line of the original string.\n */\n * Doesn't preserve the original line endings.\n */\npublic fun
String.prependIndent(indent: String = "\\n "): String =\n lineSequence()\n .map {\n when {\n
it.isBlank() -> {\n when {\n it.length < indent.length -> indent\n else -> it\n
 }\n }\n else -> indent + it\n }\n }.joinToString("\\n")\n\nprivate fun
String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun
getIndentFunction(indent: String) = when {\n indent.isEmpty() -> { line: String -> line }\n else -> { line: String -
> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n resultSizeEstimate: Int,\n indentAddFunction:
(String) -> String,\n indentCutFunction: (String) -> String?): String {\n val lastIndex = lastIndex\n return
mapIndexedNotNull { index, value ->\n if ((index == 0 || index == lastIndex) && value.isBlank())\n null\n else\n indentCutFunction(value)?.let(indentAddFunction) ?: value\n }\n}.joinTo(StringBuilder(resultSizeEstimate), "\\n")\n .toString()\n}\n\n"/\n\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for
Unicode symbols used in proper Typography.\n */\npublic object Typography {\n /** The character "
\u2013 quotation mark */\n public const val quote: Char = "\u0022"\n /** The character $ \u2013 dollar
sign */\n public const val dollar: Char = "\u0024"\n /** The character & \u2013 ampersand */\n public
const val amp: Char = "\u0026"\n /** The character < \u2013 less-than sign */\n public const val less:
Char = "\u003C"\n /** The character > \u2013 greater-than sign */\n public const val greater: Char =
"\u003E"\n /** The non-breaking space character */\n public const val nbsp: Char = "\u00A0"\n /** The
character × */\n public const val times: Char = "\u00D7"\n /** The character ¢ */\n public const
val cent: Char = "\u00A2"\n /** The character £ */\n public const val pound: Char = "\u00A3"\n /** The
character § */\n public const val section: Char = "\u00A7"\n /** The character © */\n public const
val copyright: Char = "\u00A9"\n /** The character « */\n @SinceKotlin("1.6")\n public const val
leftGuillemet: Char = "\u00AB"\n /** The character » */\n @SinceKotlin("1.6")\n public const val
rightGuillemet: Char = "\u00BB"\n /** The character ® */\n public const val registered: Char =
"\u00AE"\n /** The character ° */\n public const val degree: Char = "\u00B0"\n /** The character
± */\n public const val plusMinus: Char = "\u00B1"\n /** The character ¶ */\n public const val
paragraph: Char = "\u00B6"\n /** The character · */\n public const val middleDot: Char = "\u00B7"\n
/** The character ½ */\n public const val half: Char = "\u00BD"\n /** The character – */\n
public const val ndash: Char = "\u2013"\n /** The character — */\n public const val mdash: Char =
"\u2014"\n /** The character ‘ */\n public const val leftSingleQuote: Char = "\u2018"\n /** The
character ’ */\n public const val rightSingleQuote: Char = "\u2019"\n /** The character ‚ */\n
public const val lowSingleQuote: Char = "\u201A"\n /** The character “ */\n public const val
leftDoubleQuote: Char = "\u201C"\n /** The character ” */\n public const val rightDoubleQuote: Char
= "\u201D"\n /** The character „ */\n public const val lowDoubleQuote: Char = "\u201E"\n /** The
character † */\n public const val dagger: Char = "\u2020"\n /** The character ‡ */\n public
const val doubleDagger: Char = "\u2021"\n /** The character • */\n public const val bullet: Char =
"\u2022"\n /** The character … */\n public const val ellipsis: Char = "\u2026"\n /** The character
′ */\n public const val prime: Char = "\u2032"\n /** The character ″ */\n public const val
doublePrime: Char = "\u2033"\n /** The character € */\n public const val euro: Char = "\u20AC"\n
/** The character ™ */\n public const val tm: Char = "\u2122"\n /** The character ≈ */\n
public const val almostEqual: Char = "\u2248"\n /** The character ≠ */\n public const val notEqual:
Char = "\u2260"\n /** The character ≤ */\n public const val lessOrEqual: Char = "\u2264"\n /** The

```



```

character ≥ *
public const val greaterOrEqual: Char = "\u2265"
/** The character «
@Deprecated("This constant has a typo in the name. Use leftGuillemet instead."),
ReplaceWith("Typography.leftGuillemet")
@DeprecatedSinceKotlin("1.6")
public const val
leftGuillemete: Char = "\u00AB"
/** The character »
@Deprecated("This constant has a typo in
the name. Use rightGuillemet instead."),
ReplaceWith("Typography.rightGuillemet")
@DeprecatedSinceKotlin("1.6")
public const val rightGuillemete: Char = "\u00BB",
"/
* Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
* Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
package kotlin.text
/**
 * Represents a collection of captured groups in a single match of a regular expression.
 * This collection has size
of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed
from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
 * An element of the
collection at the particular index can be `null` if the corresponding group in the regular expression is optional
and
 * there was no match captured by that group.
*/
public interface MatchGroupCollection :
Collection<MatchGroup?> {
 /** Returns a group with the specified [index].
 * @return An instance
of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.
 * Groups are
indexed from 1 to the count of groups in the regular expression. A group with the index 0
 * corresponds to the
entire match.
 */
 public operator fun get(index: Int): MatchGroup?
}
/** Extends
[MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.
*/
@SinceKotlin("1.1")
public interface MatchNamedGroupCollection : MatchGroupCollection {
 /**
 * Returns a named group with the specified [name].
 * @return An instance of [MatchGroup] if the group with the
specified [name] was matched or `null` otherwise.
 * @throws IllegalArgumentException if there is no group
with the specified [name] defined in the regex pattern.
 * @throws UnsupportedOperationException if getting
named groups isn't supported on the current platform.
 */
 public operator fun get(name: String):
MatchGroup?
}
/** Represents the results from a single regular expression match.
*/
public interface
MatchResult {
 /** The range of indices in the original string where match was captured.
 */
 public val range:
IntRange
 /** The substring from the input string captured by this match.
 */
 public val value: String
 /**
 * A collection of groups matched by the regular expression.
 * This collection has size of `groupCount +
1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed from 1 to
`groupCount` and group with the index 0 corresponds to the entire match.
 */
 public val groups:
MatchGroupCollection
 /**
 * A list of matched indexed group values.
 * This list has size of
`groupCount + 1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed
from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
 * If the group in the
regular expression is optional and there were no match captured by that group,
 * corresponding item in
[groupValues] is an empty string.
 */
 @sample
samples.text.Regexps.matchDestructuringToGroupValues
 public val groupValues: List<String>
 /**
 * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
of group values.
 * component1 corresponds to the value of the first group, component2
of the
second, and so on.
 */
 @sample
samples.text.Regexps.matchDestructuringToGroupValues
 public val destructured: Destructured
 get() = Destructured(this)
 /** Returns a new [MatchResult] with the
results for the next match, starting at the position
 * at which the last match ended (at the character after the last
matched character).
 */
 public fun next(): MatchResult?
 /** Provides components for
destructuring assignment of group values.
 * [component1] corresponds to the value of the first group,
[component2]
of the second, and so on.
 * If the group in the regular expression is optional and
there were no match captured by that group,
 * corresponding component value is an empty string.
 */
 @sample
samples.text.Regexps.matchDestructuringToGroupValues
 public class Destructured internal
constructor(public val match: MatchResult) {
 @kotlin.internal.InlineOnly
 public operator inline fun
component1(): String = match.groupValues[1]
 @kotlin.internal.InlineOnly
 public operator inline fun
component2(): String = match.groupValues[2]
 @kotlin.internal.InlineOnly
 public operator inline fun

```

```

component3(): String = match.groupValues[3]\n @kotlin.internal.InlineOnly\n public operator inline fun
component4(): String = match.groupValues[4]\n @kotlin.internal.InlineOnly\n public operator inline fun
component5(): String = match.groupValues[5]\n @kotlin.internal.InlineOnly\n public operator inline fun
component6(): String = match.groupValues[6]\n @kotlin.internal.InlineOnly\n public operator inline fun
component7(): String = match.groupValues[7]\n @kotlin.internal.InlineOnly\n public operator inline fun
component8(): String = match.groupValues[8]\n @kotlin.internal.InlineOnly\n public operator inline fun
component9(): String = match.groupValues[9]\n @kotlin.internal.InlineOnly\n public operator inline fun
component10(): String = match.groupValues[10]\n\n /**\n * Returns destructured group values as a list of
strings.\n * First value in the returned list corresponds to the value of the first group, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public fun toList():
List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n}", /*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName("DurationUnitKt")\n\npackage
kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n *
The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic expect enum class
DurationUnit {\n /**\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n *\n
NANOSECONDS,\n /**\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n *\n
MICROSECONDS,\n /**\n * Time unit representing one millisecond, which is 1/1000 of a second.\n *\n
MILLISECONDS,\n /**\n * Time unit representing one second.\n *\n SECONDS,\n /**\n *
Time unit representing one minute.\n *\n MINUTES,\n /**\n * Time unit representing one hour.\n *\n
HOURS,\n /**\n * Time unit representing one day, which is always equal to 24 hours.\n *\n
DAYS;\n}\n\n/**\n * Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
[targetUnit].\n *\n@SinceKotlin("1.3")\n\ninternal expect fun convertDurationUnit(value: Double, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Double\n\n// overflown result is
unspecified\n@SinceKotlin("1.5")\n\ninternal expect fun convertDurationUnitOverflow(value: Long, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Long\n\n// overflown result is coerced in the Long range
boundaries\n@SinceKotlin("1.5")\n\ninternal expect fun convertDurationUnit(value: Long, sourceUnit:
DurationUnit, targetUnit: DurationUnit):
Long\n\n\n@SinceKotlin("1.3")\n@Suppress("REDUNDANT_ELSE_IN_WHEN")\n\ninternal fun
DurationUnit.shortName(): String = when (this) {\n DurationUnit.NANOSECONDS -> "ns"\n
DurationUnit.MICROSECONDS -> "us"\n DurationUnit.MILLISECONDS -> "ms"\n
DurationUnit.SECONDS -> "s"\n DurationUnit.MINUTES -> "m"\n DurationUnit.HOURS -> "h"\n
DurationUnit.DAYS -> "d"\n else -> error("Unknown unit: $this")\n}\n\n@SinceKotlin("1.5")\n\ninternal fun
durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n "ns" ->
DurationUnit.NANOSECONDS\n "us" -> DurationUnit.MICROSECONDS\n "ms" ->
DurationUnit.MILLISECONDS\n "s" -> DurationUnit.SECONDS\n "m" -> DurationUnit.MINUTES\n
"h" -> DurationUnit.HOURS\n "d" -> DurationUnit.DAYS\n else -> throw
IllegalArgumentException("Unknown duration unit short name:
$shortName")\n}\n\n@SinceKotlin("1.5")\n\ninternal fun durationUnitByIsoChar(isoChar: Char,
isTimeComponent: Boolean): DurationUnit =\n when {\n !isTimeComponent -> {\n when (isoChar)
{\n 'D' -> DurationUnit.DAYS\n else -> throw IllegalArgumentException("Invalid or
unsupported duration ISO non-time unit: $isoChar")\n }\n }\n else -> {\n when (isoChar) {\n
 'H' -> DurationUnit.HOURS\n 'M' -> DurationUnit.MINUTES\n 'S' ->
DurationUnit.SECONDS\n else -> throw IllegalArgumentException("Invalid duration ISO time unit:
$isoChar")\n }\n }\n }, /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

```

license/LICENSE.txt file.

```

package kotlin.time
import kotlin.annotation.AnnotationTarget

This annotation marks the experimental preview of the standard library API for measuring time and working with durations.
> Note that this API is in a preview state and has a very high chance of being changed in the future. Do not use it if you develop a library since your library will become binary incompatible with the future versions of the standard library.
Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by annotating that usage with the [OptIn] annotation, e.g.
`@OptIn(ExperimentalTime::class)`, or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.

@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.ERROR)
@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@MustBeDocumented
@Retention(AnnotationRetention.BINARY)
@Target(
 CLASS,
 ANNOTATION_CLASS,
 PROPERTY,
 FIELD,
 LOCAL_VARIABLE,
 VALUE_PARAMETER,
 CONSTRUCTOR,
 FUNCTION,
 PROPERTY_GETTER,
 PROPERTY_SETTER,
 TYPEALIAS
)
@SinceKotlin("1.3")
public annotation class ExperimentalTime

/* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

A source of time for measuring time intervals.

The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to query the elapsed time later.
@see [measureTime]
@see [measureTimedValue]

@SinceKotlin("1.3")
@ExperimentalTime
public interface TimeSource {
 /* Marks a point in time on this time source.
 The returned [TimeMark] instance encapsulates the captured time point and allows querying the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.

 public fun markNow(): TimeMark

 /* The most precise time source available in the platform.
 This time source returns its readings from a source of monotonic time when it is available in a target platform, and resorts to a non-monotonic time source otherwise.

 public object Monotonic : TimeSource by MonotonicTimeSource {
 override fun toString(): String = MonotonicTimeSource.toString()
 }

 public companion object {
 }

 /* Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).

 @SinceKotlin("1.3")
 @ExperimentalTime
 public abstract class TimeMark {
 /* Returns the amount of time passed from this mark measured with the time source from which this mark was taken.
 Note that the value returned by this function can change on subsequent invocations.

 public abstract fun elapsedNow(): Duration

 /* Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].
 The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.

 public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)

 /* Returns a time mark on the same time source that is behind this time mark by the specified [duration].
 The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.

 public open operator fun minus(duration: Duration): TimeMark = plus(-duration)

 /* Returns true if this time mark has passed according to the time source from which this mark was taken.
 Note that the value returned by this function can change on subsequent invocations.
 If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.

 public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()

 /* Returns false if this time mark has not passed according to the time source from which this mark was taken.
 Note that the value returned by this function can change on subsequent invocations.
 If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.

 public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()
 }

 @ExperimentalTime
 @SinceKotlin("1.3")
 @kotlin.internal.InlineOnly
 @Deprecated(
 "Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.",
 level =

```

```

DeprecationLevel.ERROR\n\n@Suppress("UNUSED_PARAMETER")\npublic inline operator fun
TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is
disallowed.")\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n
"Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.")\n level =
DeprecationLevel.ERROR\n\n@Suppress("UNUSED_PARAMETER")\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is
disallowed.")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment:
Duration) : TimeMark() {\n override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n
override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n"/\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource :
TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values
in the specified [unit].\n * @property unit The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {\n /**\n * This protected method should be overridden to return the current
reading of the time source expressed as a [Long] number\n * in the unit specified by the [unit] property.\n
*/\n\n protected abstract fun read(): Long\n\n private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n override fun
plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n }\n\n override fun
markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to
implement time sources that return their readings as [Double] values in the specified [unit].\n * @property unit
The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val
unit: DurationUnit) : TimeSource {\n /**\n * This protected method should be overridden to return the current
reading of the time source expressed as a [Double] number\n * in the unit specified by the [unit] property.\n
*/\n\n protected abstract fun read(): Double\n\n private class DoubleTimeMark(private val startedAt: Double,
private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n override fun
plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)\n }\n\n override fun
markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source
that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n * @property
unit The unit in which this time source's readings are expressed.\n * @property reading The current reading value
of this time source.\n * @property timeSource The time source used to obtain readings.\n * @property offset The
offset from the time source's readings to the current reading value.\n * @property advanced The amount of time
advanced from the current reading value.\n * @property advancedUnit The unit of the advanced amount.\n * @property
advancedValue The advanced amount in the advanced unit.\n * @property advancedValueUnit The unit of the advanced
amount.\n * @property advancedValueUnit The unit of the advanced amount.\n * @property advancedValueUnit The unit
of the advanced amount.\n * @property advancedValueUnit The unit of the advanced amount.\n * @property advancedValueUnit
The unit of the advanced amount.\n * @property advancedValueUnit The unit of the advanced amount.\n * @property
advancedValueUnit The unit of the advanced amount.\n * @property advancedValueUnit The unit of the advanced amount.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource
: AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n private var reading: Long = 0L\n\n override fun
read(): Long = reading\n\n /**\n * Advances the current reading value of this time source by the
specified [duration].\n * [duration] value is rounded down towards zero when converting it to a [Long]
number of nanoseconds.\n * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't
advance because\n * the duration value is rounded to zero nanoseconds.\n */\n\n @throws
IllegalStateException when the reading value overflows as the result of this operation.\n\n public operator fun
plusAssign(duration: Duration) {\n val longDelta = duration.toLong(unit)\n reading = if (longDelta !=
Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n // when delta fits in long, add it as long\n
 val newReading = reading + longDelta\n if (reading xor longDelta >= 0 && reading xor newReading < 0)

```

```

overflow(duration)\n newReading\n } else {\n val delta = duration.toDouble(unit)\n // when
delta is greater than long, add it as double\n val newReading = reading + delta\n if (newReading >
Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n newReading.toLong()\n }\n}\n\nprivate fun overflow(duration: Duration) {\n throw IllegalStateException("TestTimeSource will
overflow if its reading ${reading}ns is advanced by $duration.")\n}\n\n"/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time interval.\n
*\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n
contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n}\n\nreturn
TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n * The elapsed time is measured with the specified `this` [TimeSource]
instance.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: ()
-> Unit): Duration {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val
mark = markNow()\n block()\n return mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of
executing an action, along with the duration of elapsed time interval.\n * The elapsed time is measured with
the specified `this` [TimeSource] instance.\n * @property value the result of the
action.\n * @property duration the time elapsed to execute the action.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration:
Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing
both\n * the result of the function execution and the duration of elapsed time interval.\n * The elapsed time is
measured with [TimeSource.Monotonic].\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {\n contract {\n callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n }\n\n return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val
mark = markNow()\n val result = block()\n return TimedValue(result, mark.elapsedNow())\n}\n\n"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport
kotlin.native.concurrent.SharedImmutable\n\n/**\n * Defines deep recursive function that keeps its stack on the
heap,\n * which allows very deep recursive computations that do not use the actual call stack.\n * To initiate a call to
this deep recursive function use its [invoke] function.\n * As a rule of thumb, it should be used if recursion goes
deeper than a thousand calls.\n * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a
result of type [R].\n * The [block] of code defines the body of a recursive function. In this block\n *
[callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive call\n * to the
declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this scope with `callRecursive`
extension, too.\n * For example, take a look at the following recursive tree class and a deeply\n * recursive
instance of this tree with 100K nodes:\n */\n\n```\n * class Tree(val left: Tree? = null, val right: Tree? = null)\n * val
deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n */\n\n * A regular recursive function
can be defined to compute a depth of a tree:\n */\n\n```\n * fun depth(t: Tree?): Int =\n * if (t == null) 0 else
max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n */\n\n * If this
`depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n *
However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then\n * it
successfully computes [depth(deepTree)][DeepRecursiveFunction.invoke] expression:\n */\n\n```\n * val depth =

```

```

DeepRecursiveFunction<Tree?, Int> { t -> \n * if (t == null) 0 else max(callRecursive(t.left),
callRecursive(t.right)) + 1 \n * } \n * println(depth(deepTree)) // Ok \n * ``` \n * \n * Deep recursive functions can also
mutually call each other using a heap for the stack via \n * [callRecursive][DeepRecursiveScope.callRecursive]
extension. For example, the \n * following pair of mutually recursive functions computes the number of tree nodes at
even depth in the tree. \n * \n * ``` \n * val mutualRecursion = object { \n * val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t -> \n * if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1 \n * } \n * val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t -> \n * if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right) \n * } \n * } \n * ``` \n * \n * @param [T] the function parameter type. \n * @param [R]
the function result type. \n * @param block the function body. \n
*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic class DeepRecursiveFunction<T, R>(\n internal val
block: suspend DeepRecursiveScope<T, R>.(T) -> R)\n\n/** \n * Initiates a call to this deep recursive function,
forming a root of the call tree. \n * This operator should not be used from inside of [DeepRecursiveScope] as it
uses the call stack slot for \n * initial recursive invocation. From inside of [DeepRecursiveScope] use \n *
[callRecursive][DeepRecursiveScope.callRecursive]. \n
*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic operator fun <T, R> DeepRecursiveFunction<T,
R>.invoke(value: T): R = \n DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n\n/** \n * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to \n * recursively call
this function or another [DeepRecursiveFunction] putting the call activation frame on the heap. \n * \n * @param [T]
function parameter type. \n * @param [R] function result type. \n
*\n@RestrictsSuspension\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic sealed class
DeepRecursiveScope<T, R> {\n /** \n * Makes recursive call to this [DeepRecursiveFunction] function putting
the call activation frame on the heap, \n * as opposed to the actual call stack that is used by a regular recursive
call. \n * \n * @public abstract suspend fun callRecursive(value: T): R \n * \n * /** \n * Makes call to the specified
[DeepRecursiveFunction] function putting the call activation frame on the heap, \n * as opposed to the actual call
stack that is used by a regular call. \n * \n * @public abstract suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S \n * \n * @Deprecated(\n level = DeprecationLevel.ERROR, \n message = \n
\'\'invoke\' should not be called from DeepRecursiveScope. \'\' + \n \'\'Use \'callRecursive\' to do recursion in
the heap instead of the call stack.\'\' \n replaceWith = ReplaceWith(\\'\'this.callRecursive(value)\'\' \n) \n
\n@Suppress(\\'\'UNUSED_PARAMETER\')\n public operator fun DeepRecursiveFunction<, *>.invoke(value:
Any?): Nothing = \n throw UnsupportedOperationException(\\'\'Should not be called from
DeepRecursiveScope\')\n }\n\n// ===== Implementation
=====\n\n@ExperimentalStdlibApi\nprivate typealias DeepRecursiveFunctionBlock = suspend
DeepRecursiveScope<*, *>.(Any?) -> Any?\n\n@SharedImmutable\nprivate val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)\n\n@Suppress(\\'\'UNCHECKED_CAST\')\n@ExperimentalStdlibApi\nprivate class
DeepRecursiveScopeImpl<T, R>(\n block: suspend DeepRecursiveScope<T, R>.(T) -> R, \n value: T \n) :
DeepRecursiveScope<T, R>(), Continuation<R> {\n // Active function block \n private var
function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock \n // Value to call function
with \n private var value: Any? = value \n // Continuation of the current call \n private var cont:
Continuation<Any?>? = this as Continuation<Any?> \n // Completion result (completion of the whole call
stack) \n private var result: Result<Any?> = UNDEFINED_RESULT \n override val context:
CoroutineContext \n get() = EmptyCoroutineContext \n override fun resumeWith(result: Result<R>) {\n
this.cont = null \n this.result = result \n }\n override suspend fun callRecursive(value: T): R =
suspendCoroutineUninterceptedOrReturn { cont -> \n // calling the same function that is currently active \n
this.cont = cont as Continuation<Any?> \n this.value = value \n COROUTINE_SUSPENDED \n }\n override
suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S =
suspendCoroutineUninterceptedOrReturn { cont -> \n // calling another recursive function \n val function =
block as DeepRecursiveFunctionBlock \n with(this@DeepRecursiveScopeImpl) {\n val currentFunction

```

```

= this.function\n if (function !== currentFunction) {\n // calling a different function -- create a
trampoline to restore function ref\n this.function = function\n this.cont =
crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n } else {\n // calling the
same function -- direct\n this.cont = cont as Continuation<Any?>\n }\n this.value = value\n }\n COROUTINE_SUSPENDED\n }\n\n private fun crossFunctionCompletion(\n currentFunction:
DeepRecursiveFunctionBlock,\n cont: Continuation<Any?>\n): Continuation<Any?> =
Continuation(EmptyCoroutineContext) {\n this.function = currentFunction\n // When going back from a
trampoline we cannot just call cont.resume (stack usage!)\n // We delegate the cont.resumeWith(it) call to
runCallLoop\n this.cont = cont\n this.result = it\n }\n\n @Suppress(\"UNCHECKED_CAST\")\n fun
runCallLoop(): R {\n while (true) {\n // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith
when the whole computation completes\n val result = this.result\n val cont = this.cont\n ?:
return (result as Result<R>).getOrThrow() // done -- final result\n // The order of comparison is important
here for that case of rogue class with broken equals\n if (UNDEFINED_RESULT == result) {\n //
call \"function\" with \"value\" using \"cont\" as completion\n val r = try {\n // This is
block.startCoroutine(this, value, cont)\n function.startCoroutineUninterceptedOrReturn(this, value,
cont)\n } catch (e: Throwable) {\n cont.resumeWithException(e)\n continue\n
 }\n // If the function returns without suspension -- calls its continuation immediately\n if (r !==
COROUTINE_SUSPENDED)\n cont.resume(r as R)\n } else {\n // we returned from a
crossFunctionCompletion trampoline -- call resume here\n this.result = UNDEFINED_RESULT // reset
result back\n cont.resumeWith(result)\n }\n }\n }\n}\n\n\"/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage
kotlin\n\nimport kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is
closer to negative infinity. *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.floorDiv(other: Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
divisor and has the absolute value less than the absolute value of the divisor.\n\n
*\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Byte): Byte = \n
this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.floorDiv(other: Short): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
divisor and has the absolute value less than the absolute value of the divisor.\n\n
*\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Short): Short = \n
this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity. *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring
division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and
has the absolute value less than the absolute value of the divisor.\n\n
*\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Int): Int = \n
this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to
negative infinity. *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other:
Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute
value less than the absolute value of the divisor.\n\n
*\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.

```

```

*\/n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Byte): Int = \n
this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Short.mod(other: Byte): Byte = \n this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Short): Int = \n
this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Short.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Int): Int = \n
this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Short.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the
result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Long): Long = \n
this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Short.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring
the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Byte): Int = \n
this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Int.mod(other: Byte): Byte = \n this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Short): Int = \n
this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Int.mod(other: Short): Short = \n this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Int): Int {\n var q =
this / other\n if (this xor other < 0 && q * other != this) q--\n return q\n}\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
divisor and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Int): Int {\n val r = this
% other\n return r + (other and (((r xor other) and (r or -r)) shr 31))\n}\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Long): Long = \n
this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the
absolute value of the divisor.\n */\n@SinceKotlin(\\\"1.5\\\")n@kotlin.internal.InlineOnly\npublic inline fun
Int.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring

```



the result to an integer that is closer to negative infinity.

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Byte): Long = \nthis.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other\n * value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the\n * absolute value of the divisor.\n */\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun\nLong.mod(other: Byte): Byte = \nthis.mod(other.toLong()).toByte()\n\n/** Divides this value by the other value,\n * flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Short): Long = \nthis.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other\n * value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the\n * absolute value of the divisor.\n */\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun\nLong.mod(other: Short): Short = \nthis.mod(other.toLong()).toShort()\n\n/** Divides this value by the other\n * value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Int): Long = \nthis.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other\n * value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the\n * absolute value of the divisor.\n */\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun\nLong.mod(other: Int): Int = \nthis.mod(other.toLong()).toInt()\n\n/** Divides this value by the other value,\n * flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Long): Long {\n var q = this / other\n if (this xor other < 0 && q * other != this) q--\n return q\n}\n\n/**\n * Calculates the\n * remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign\n * as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long {\n val r = this % other\n return r + (other and (((r xor other) and (r or -r)) shr 63))\n}\n\n/**\n * Calculates the remainder\n * of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign\n * as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be\n * represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result\n * can be less than or _equal to_ the absolute value of the divisor.\n */
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Float): Float {\n val r = this % other\n return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r\n}\n\n/**\n * Calculates the\n * remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign\n * as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be\n * represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result\n * can be less than or _equal to_ the absolute value of the divisor.\n */
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Double): Double = \nthis.toDouble().mod(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other\n * value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the\n * absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest\n * representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of\n * the divisor.\n */
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Float):\nDouble = \nthis.mod(other.toDouble())\n\n/**\n * Calculates the remainder of flooring division of this value by\n * the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less\n * than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest\n * representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of\n * the divisor.\n */
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other:\nDouble): Double {\n val r = this % other\n return if (r != 0.0 && r.sign != other.sign) r + other else\nr\n}\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
```

```

this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
package kotlin.internal.InlineOnly
import kotlin.internal.InlineOnly
import kotlin.reflect.KProperty0

/** Returns a hash code value for the object or zero if the object is `null`.
 * @see Any.hashCode
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0

/** Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin

/** Represents a version of the Kotlin standard library.
 * [major], [minor] and [patch] are integer components of a version,
 * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).
 * @constructor Creates a version from all three components.
 */
@SinceKotlin("1.1")
public class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {
 /** Creates a version from [major] and [minor] components, leaving [patch] component zero.
 */
 public constructor(major: Int, minor: Int) : this(major, minor, 0)

 private val version = versionOf(major, minor, patch)

 private fun versionOf(major: Int, minor: Int, patch: Int): Int {
 require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {
 "Version components are out of range: $major.$minor.$patch"
 }
 return major.shl(16) + minor.shl(8) + patch
 }

 /** Returns the string representation of this version
 */
 override fun toString(): String = "$major.$minor.$patch"

 override fun equals(other: Any?): Boolean {
 if (this === other) return true
 val otherVersion = (other as? KotlinVersion) ?: return false
 return this.version == otherVersion.version
 }

 override fun hashCode(): Int = version

 override fun compareTo(other: KotlinVersion): Int = version - other.version

 /** Returns `true` if this version is not less than the version specified
 * with the provided [major] and [minor] components.
 */
 public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)
 this.major > major || (this.major == major && this.minor >= minor)

 /** Returns `true` if this version is not less than the version specified
 * with the provided [major], [minor] and [patch] components.
 */
 public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)
 this.major > major || (this.major == major && (this.minor > minor || this.minor == minor && this.patch >= patch))
}

companion object {
 /** Maximum value a version component can have, a constant value 255.
 */
 // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS
 public const val MAX_COMPONENT_VALUE = 255

 /** Returns the current version of the Kotlin standard library.
 */
 @kotlin.jvm.JvmField
 public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()
}

// this class is ignored during classpath normalization when considering whether to recompile dependencies in Kotlin build
private object KotlinVersionCurrentValue {
 @kotlin.jvm.JvmStatic
 fun get(): KotlinVersion = KotlinVersion(1, 6, 10) // value is written here automatically during build
}

/** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("LateinitKt")
@file:Suppress("unused")
package kotlin

import kotlin.internal.InlineOnly
import kotlin.internal.AccessibleLateinitPropertyLiteral
import kotlin.reflect.KProperty0

/** Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.
 * Cannot be used in an inline function, to avoid binary compatibility issues.
 */
@SinceKotlin("1.2")
@InlineOnly
inline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean
 get() = throw NotImplementedError("Implementation is intrinsic")

/** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("LazyKt")
@file:kotlin.jvm.JvmMultifileClass
package kotlin

import kotlin.reflect.KProperty

/** Represents a value with lazy initialization.
 * To create an instance of [Lazy] use the [lazy] function.
 */
public interface Lazy<out T> {
 /** Gets the lazily initialized value of the current Lazy instance.
 * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.
 */
 public val value: T

 /** Returns `true` if a value for this Lazy instance has been

```

already initialized, and `false` otherwise.

```

 * Once this function has returned `true` it stays `true` for the rest of
 lifetime of this Lazy instance.
 */
 public fun isInitialized(): Boolean {
 }

 * Creates a new instance of
 the [Lazy] that is already initialized with the specified [value].
 */
 public fun <T> lazyOf(value: T): Lazy<T> =
 InitializedLazyImpl(value)

 * An extension to delegate a read-only property of type [T] to an instance of
 [Lazy].
 */
 * This extension allows to use instances of Lazy for property delegation:
 */
 `val` property: String by
 lazy { initializer }
 */
 @kotlin.internal.InlineOnly
 public inline operator fun <T> Lazy<T>.getValue(thisRef:
 Any?, property: KProperty<*>): T = value

 * Specifies how a [Lazy] instance synchronizes initialization
 among multiple threads.
 */
 public enum class LazyThreadSafetyMode {
 }

 * Locks are used to ensure
 that only a single thread can initialize the [Lazy] instance.
 */
 SYNCHRONIZED,

 * Initializer
 function can be called several times on concurrent access to uninitialized [Lazy] instance value,
 * but only the
 first returned value will be used as the value of [Lazy] instance.
 */
 PUBLICATION,

 * No
 locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple
 threads, its behavior is undefined.
 */
 * This mode should not be used unless the [Lazy] instance is
 guaranteed never to be initialized from more than one thread.
 */
 NONE,
 }

 internal object
 UNINITIALIZED_VALUE
 internal to be called from lazy in JS
 internal class UnsafeLazyImpl<out
 T>(initializer: () -> T) : Lazy<T>, Serializable {
 private var initializer: (() -> T)? = initializer
 private var
 _value: Any? = UNINITIALIZED_VALUE

 override val value: T
 get() {
 if (_value ===
 UNINITIALIZED_VALUE) {
 _value = initializer!!()
 initializer = null
 }
 @Suppress("UNCHECKED_CAST")
 return _value as T
 }

 override fun isInitialized():
 Boolean = _value != UNINITIALIZED_VALUE

 override fun toString(): String =
 if (isInitialized())
 value.toString() else "Lazy value not initialized yet."

 private fun writeReplace(): Any =
 InitializedLazyImpl(value)
 }

 internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
 Serializable {
 override fun isInitialized(): Boolean = true

 override fun toString(): String =
 value.toString()
 }
 }

 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
 contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 license/LICENSE.txt file.
 */
 @file:kotlin.jvm.JvmMultifileClass
 @file:kotlin.jvm.JvmName("NumbersKt")
 package kotlin

 *
 Counts the number of set bits in the binary representation of this [Int] number.
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun
 Int.countOneBits(): Int

 * Counts the number of consecutive most significant bits that are zero in the binary
 representation of this [Int] number.
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun
 Int.countLeadingZeroBits(): Int

 * Counts the number of consecutive least significant bits that are zero in
 the binary representation of this [Int] number.
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun
 Int.countTrailingZeroBits(): Int

 * Returns a number having a single bit set in the position of the most
 significant set bit of this [Int] number,
 * or zero, if this number is zero.
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun
 Int.takeHighestOneBit(): Int

 * Returns a number having a single bit set in the position of the least
 significant set bit of this [Int] number,
 * or zero, if this number is zero.
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun
 Int.takeLowestOneBit(): Int

 * Rotates the binary representation of this [Int] number left by the specified
 [bitCount] number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least
 significant bits on the right side.
 * Rotating the number left by a negative bit count is the same as rotating it
 right by the negated bit count:
 * `number.rotateLeft(-n) == number.rotateRight(n)`
 * Rotating by a multiple
 of [Int.SIZE_BITS] (32) returns the same number, or more generally
 * `number.rotateLeft(n) ==
 number.rotateLeft(n % 32)`
 */
 @SinceKotlin("1.6")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect fun

```

Int.rotateLeft(bitCount: Int): Int\n\n\*\*\n \* Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \*\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \*\n \* Rotating by a multiple of [Int.SIZE\_BITS] (32) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 32)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Int.rotateRight(bitCount: Int): Int\n\n\*\*\n \* Counts the number of set bits in the binary representation of this [Long] number.\n \*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.countOneBits(): Int\n\n\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.countLeadingZeroBits(): Int\n\n\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.countTrailingZeroBits(): Int\n\n\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.takeHighestOneBit(): Long\n\n\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.takeLowestOneBit(): Long\n\n\*\*\n \* Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \*\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \*\n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.rotateLeft(bitCount: Int): Long\n\n\*\*\n \* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \*\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \*\n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 64)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Long.rotateRight(bitCount: Int): Long\n\n\*\*\n \* Counts the number of set bits in the binary representation of this [Byte] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun

Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun

Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE\_BITS - Byte.SIZE\_BITS)\n\n\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun

Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n/\*\*\n \* Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [Byte.SIZE\_BITS] (8) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n/\*\*\n \* Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \* Rotating by a multiple of [Byte.SIZE\_BITS] (8) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 8)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Byte.rotateRight(bitCount: Int): Byte =\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/\*\*\n \* Counts the number of set bits in the binary representation of this [Short] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE\_BITS - Short.SIZE\_BITS)\n\n/\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [Short] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n \* or zero, if this number is zero.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/\*\*\n \* Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [Short.SIZE\_BITS] (16) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateLeft(bitCount: Int): Short =\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/\*\*\n \* Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the

most significant bits on the left side.  
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:  
`number.rotateRight(-n) == number.rotateLeft(n)`  
Rotating by a multiple of [Short.SIZE\_BITS] (16) returns the same number, or more generally  
`number.rotateRight(n) == number.rotateRight(n % 16)`

```
SinceKotlin("1.6")WasExperimental(ExperimentalStdlibApi::class)public fun
Short.rotateRight(bitCount: Int): Short = (toInt().shl(16 - (bitCount and 15)) or (toInt() and
0xFFFF).ushr(bitCount and 15)).toShort()
/* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
package kotlin.nimpor kotlin.internal.RequireKotlin.nimpor
kotlin.internal.RequireKotlinVersionKind.kotlin.internal.InlineOnlySinceKotlin("1.2")@Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")@RequireKotlin("1.2.30", level =
DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)public inline fun
<R> suspend(noinline block: suspend () -> R): suspend () -> R = block
/* Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.
```

```
file:kotlin.jvm.JvmName("TuplesKt")package kotlin.n.n/** Represents a generic pair of two
values. There is no meaning attached to values in this class, it can be used for any purpose. Pair exhibits
value semantics, i.e. two pairs are equal if both components are equal. An example of decomposing it into
values:
@sample samples.misc.Tuples.pairDestructuring
@param A type of the first value.
@param B type of the second value.
@property first First value.
@property second Second value.
@constructor
Creates a new instance of Pair.
public data class Pair<out A, out B> {
 public val first: A,
 public val
second: B
} : Serializable {
 /** Returns string representation of the [Pair] including its [first] and
[second] values.
 public override fun toString(): String = "$first, $second"
}
/** Creates a tuple
of type [Pair] from this and [that].
This can be useful for creating [Map] literals with less noise, for
example:
@sample samples.collections.Maps.instantiation.mapFromPairs
public infix fun <A, B>
A.to(that: B): Pair<A, B> = Pair(this, that)
/** Converts this pair into a list.
@sample
samples.misc.Tuples.pairToList
public fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)
/** Represents a triad of values
There is no meaning attached to values in this class, it can be used for any
purpose. Triple exhibits value semantics, i.e. two triples are equal if all three components are equal. An
example of decomposing it into values:
@sample samples.misc.Tuples.tripleDestructuring
@param A
type of the first value.
@param B type of the second value.
@param C type of the third value.
@property first First value.
@property second Second value.
@property third Third value.
public data class
Triple<out A, out B, out C> {
 public val first: A,
 public val second: B,
 public val third: C
} : Serializable {
 /** Returns string representation of the [Triple] including its [first], [second] and [third] values.
 public override fun toString(): String = "$first, $second, $third"
}
/** Converts this triple into a
list.
@sample samples.misc.Tuples.tripleToList
public fun <T> Triple<T, T, T>.toList(): List<T> =
listOf(first, second, third)
/* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
// Auto-generated file. DO NOT EDIT!
package kotlin.ranges.n.n.nimpor
kotlin.internal.n.n/** A range of values of type `UInt`.
SinceKotlin("1.5")WasExperimental(ExperimentalUnsignedTypes::class)public class UIntRange(start:
UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {
 override val start:
UInt get() = first
 override val endInclusive: UInt get() = last
 override fun contains(value: UInt): Boolean =
first <= value && value <= last
 /** Checks if the range is empty.
 The range is empty if its
start value is greater than the end value.
 override fun isEmpty(): Boolean = first > last
 override fun
equals(other: Any?): Boolean = (other is UIntRange && (isEmpty() && other.isEmpty()) || first ==
other.first && last == other.last)
 override fun hashCode(): Int = if (isEmpty()) -1 else (31 * first.toInt()
+ last.toInt())
 override fun toString(): String = "$first..$last"
 companion object {
 /** An empty
```

```

range of values of type UInt. */n public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,
UInt.MIN_VALUE)\n }\n}\n\n/**\n * A progression of values of type `UInt`. \n
*/n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
UIntProgression\n\ninternal constructor(\n start: UInt,\n endInclusive: UInt,\n step: Int\n) : Iterable<UInt> {\n
init {\n if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step
== Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to
avoid overflow on negation.")\n }\n\n /**\n * The first element in the progression. \n */\n public val first:
UInt = start\n\n /**\n * The last element in the progression. \n */\n public val last: UInt =
getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression. \n */\n public
val step: Int = step\n\n final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n
/**\n * Checks if the progression is empty. \n */\n \n * Progression with a positive step is empty if its first
element is greater than the last element. \n * Progression with a negative step is empty if its first element is less
than the last element. \n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n
override fun equals(other: Any?): Boolean =\n other is UIntProgression && (isEmpty() && other.isEmpty()) ||\n
 first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n override fun toString(): String = if
(step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n companion object {\n /**\n * Creates UIntProgression within the specified bounds of a closed range. \n */\n * The progression starts with
the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step]. \n * In
order to go backwards the [step] must be negative. \n */\n * [step] must be greater than `Int.MIN_VALUE`
and not equal to zero. \n */\n public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int):
UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n }\n}\n\n\n/**\n * An iterator over a progression
of values of type `UInt`. \n * @property step the number by which the value is incremented on each step. \n
*/n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class UIntProgressionIterator(first:
UInt, last: UInt, step: Int) : UIntIterator() {\n private val finalElement = last\n private var hasNext: Boolean = if
(step > 0) first <= last else first >= last\n private val step = step.toUInt() // use 2-complement math for negative
steps\n private var next = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n
override fun nextUInt(): UInt {\n val value = next\n if (value == finalElement) {\n if (!hasNext)\n throw kotlin.NoSuchElementException()\n hasNext = false\n } else {\n next += step\n }\n
return value\n }\n}\n\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file. \n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/**\n * An
iterator over a sequence of values of type `UByte`. \n */n@Deprecated("This class is not going to be stabilized and is
to be removed soon.", level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class
UByteIterator : Iterator<UByte> {\n final override fun next() = nextUByte()\n\n /**\n * Returns the next value in the
sequence without boxing. \n */\n public abstract fun nextUByte(): UByte\n}\n\n\n/**\n * An iterator over a sequence of
values of type `UShort`. \n */n@Deprecated("This class is not going to be stabilized and is to be removed soon.",
level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UShortIterator : Iterator<UShort>
{\n final override fun next() = nextUShort()\n\n /**\n * Returns the next value in the sequence without boxing. \n
*/\n public abstract fun nextUShort(): UShort\n}\n\n\n/**\n * An iterator over a sequence of values of type `UInt`. \n
*/n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UIntIterator : Iterator<UInt> {\n final
override fun next() = nextUInt()\n\n /**\n * Returns the next value in the sequence without boxing. \n */\n public
abstract fun nextUInt(): UInt\n}\n\n\n/**\n * An iterator over a sequence of values of type `ULong`. \n
*/n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class ULongIterator : Iterator<ULong> {\n final
override fun next() = nextULong()\n\n /**\n * Returns the next value in the sequence without boxing. \n */\n public
abstract fun nextULong(): ULong\n}\n\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin

```

```

Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class
ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),
ClosedRange<ULong> {\n override val start: ULong get() = first\n override val endInclusive: ULong get() =
last\n\n override fun contains(value: ULong): Boolean = first <= value && value <= last\n\n /**\n * Checks
if the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n */\n
 override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is
ULongRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last)\n\n
 override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr
32)).toInt())\n\n override fun toString(): String = "$first..$last"\n\n companion object {\n /**\n * An empty
range of values of type ULong. *\n * public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,
ULong.MIN_VALUE)\n }\n }\n\n/**\n * A progression of values of type `ULong`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\n\ninternal constructor(\n start: ULong,\n endInclusive: ULong,\n step: Long\n) :
Iterable<ULong> {\n init {\n if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")\n }\n\n /**\n * The first element in the
progression.\n *\n * public val first: ULong = start\n *\n * The last element in the progression.\n */\n
 public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the
progression.\n *\n * public val step: Long = step\n\n final override fun iterator(): Iterator<ULong> =
ULongProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n *\n *
Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a
negative step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is
ULongProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first shr
32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n override fun toString(): String =
if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n companion object {\n /**\n * Creates ULongProgression within the specified bounds of a closed range.\n *\n * The progression
starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n *\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than
`Long.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: ULong,
rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n }\n\n /**\n * An iterator over a progression of values of type `ULong`.\n *\n * @property step the number by which
the value is incremented on each step.\n */\n\n *\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n private val finalElement =
last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private val step =
step.toULong() // use 2-complement math for negative steps\n private var next = if (hasNext) first else
finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextULong(): ULong {\n val
value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n
 hasNext = false\n } else {\n next += step\n }\n return value\n }\n}\n\n"/\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.math\n\n/**\n *
Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\

```



```

public inline fun min(a: UInt, b: UInt): UInt { \n return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n return maxOf(a, b)\n}"\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("UNumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,\nExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,\nExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,\nExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,\nExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,\nExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,\nExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,\nExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation

```

of this [ULong] number.\n \*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n /\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n /\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n /\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\n \* or zero, if this number is zero.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n /\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\n \* or zero, if this number is zero.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n /\*\*\n \* Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [ULong.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n \*/

\*  
 @SinceKotlin("1.6")  
 @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n /\*\*\n \* Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \* Rotating by a multiple of [ULong.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 64)`\n \*/

\*  
 @SinceKotlin("1.6")  
 @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n /\*\*\n \* Counts the number of set bits in the binary representation of this [UByte] number.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n /\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n /\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n \*/

\*  
 @SinceKotlin("1.5")  
 @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n /\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\n \* or zero, if this number is zero.\n \*/

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte
= toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte =
toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by
the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *
Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount:
Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte]
number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side
reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit
count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount:
Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int
= toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int
= toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort
= toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort
= toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *
Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 16)`\n

```

```

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this
[UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count.\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\n", "\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\npackage kotlin.internal\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n val ac = a % c\n val bc = b % c\n return if (ac >= bc) ac -
bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n val ac = a %
c\n val bc = b % c\n return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end]
in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong, end: ULong,
step: Long): ULong = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step.toULong())\n step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n
else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n", "\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\n@file:kotlin.jvm.JvmName("UStringsKt") // string
representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte]
value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string
representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is

```

```

not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\n\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByteOrNull(radix: Int): UByte? {\n val int = this.toUIntOrNull(radix) ?: return null\n if (int > UByte.MAX_VALUE) return null\n return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUShortOrNull(radix: Int): UShort? {\n val int = this.toUIntOrNull(radix) ?: return null\n if (int >
UShort.MAX_VALUE) return null\n return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUIntOrNull(radix: Int): UInt? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0)
return null\n\n val limit: UInt = UInt.MAX_VALUE\n val start: Int\n\n val firstChar = this[0]\n if (firstChar
< '0') {\n if (length == 1 || firstChar != '+') return null\n start = 1\n } else {\n start = 0\n }\n\n val
limitForMaxRadix = 119304647u // limit / 36\n\n var limitBeforeMul = limitForMaxRadix\n val uradix =
radix.toUInt()\n var result = 0u\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n\n if
(digit < 0) return null\n if (result > limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n
 limitBeforeMul = limit / uradix\n\n if (result > limitBeforeMul) {\n return null\n
 }\n } else {\n return null\n }\n }\n\n result *= uradix\n\n val beforeAdding =
result\n result += digit.toUInt()\n if (result < beforeAdding) return null // overflow has happened\n }\n\n return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(radix: Int): ULong? {\n checkRadix(radix)\n\n val length = this.length\n if (length ==
0) return null\n\n val limit: ULong = ULong.MAX_VALUE\n val start: Int\n\n val firstChar = this[0]\n if
(firstChar < '0') {\n if (length == 1 || firstChar != '+') return null\n start = 1\n } else {\n start = 0\n
 }\n\n val limitForMaxRadix = 512409557603043100uL // limit / 36\n\n var limitBeforeMul =
limitForMaxRadix\n val uradix = radix.toULong()\n var result = 0uL\n for (i in start until length) {\n val
digit = digitOf(this[i], radix)\n\n if (digit < 0) return null\n if (result > limitBeforeMul) {\n if
(limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / uradix\n\n if (result >
limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n
 }\n\n result *= uradix\n\n val beforeAdding = result\n result += digit.toUInt()\n if (result <
beforeAdding) return null // overflow has happened\n }\n\n return result\n}\n\n"/**\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned
types, including those types themselves.\n *\n * Usages of such API will be reported as warnings unless an explicit
opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`\n * or with the `-Xopt-
in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n *\n * It's recommended to propagate the
experimental status to the API that depends on unsigned types by annotating it with this annotation.\n

```

```

*\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS,
PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\n"/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n* Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MathKt")\n\n\npackage
kotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the
circumference of a circle to its diameter, approximately 3.14159. *\n@SinceKotlin("1.2")\npublic const val PI:
Double = 3.141592653589793\n/** Base of the natural logarithms, approximately 2.71828.
*\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====
Double Math =====\n\n/** Computes the sine of the angle [x]
given in radians.\n *n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin("1.2")\npublic
expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n *n * Special
cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun cos(x: Double):
Double\n\n/** Computes the tangent of the angle [x] given in radians.\n *n * Special cases:\n * - `tan(NaN|+Inf|-
Inf)` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun tan(x: Double): Double\n\n/**\n * Computes the arc
sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *n * Special
cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun
asin(x: Double): Double\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in
the range from `0.0` to `PI` radians.\n *n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is
`NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun acos(x: Double): Double\n\n/**\n * Computes the arc tangent
of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *n * Special
cases:\n * - `atan(NaN)` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun atan(x: Double): Double\n\n/**\n *
Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x,
y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to
`PI` radians.\n *n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI`
for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y <
+Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * -
`atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`\n * -
`atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n
*\n@SinceKotlin("1.2")\npublic expect fun atan2(y: Double, x: Double): Double\n\n/**\n * Computes the
hyperbolic sine of the value [x].\n *n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n *
- `sinh(-Inf)` is `-Inf`\n *\n@SinceKotlin("1.2")\npublic expect fun sinh(x: Double): Double\n\n/**\n * Computes
the hyperbolic cosine of the value [x].\n *n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is
`+Inf`\n *\n@SinceKotlin("1.2")\npublic expect fun cosh(x: Double): Double\n\n/**\n * Computes the hyperbolic
tangent of the value [x].\n *n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-
Inf)` is `-1.0`\n *\n@SinceKotlin("1.2")\npublic expect fun tanh(x: Double): Double\n\n/**\n * Computes the
inverse hyperbolic sine of the value [x].\n *n * The returned value is `y` such that `sinh(y) == x`.\n *n * Special
cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n
*\n@SinceKotlin("1.2")\npublic expect fun asinh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic
cosine of the value [x].\n *n * The returned value is positive `y` such that `cosh(y) == x`.\n *n * Special cases:\n *
- `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n
*\n@SinceKotlin("1.2")\npublic expect fun acosh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic
tangent of the value [x].\n *n * The returned value is `y` such that `tanh(y) == x`.\n *n * Special cases:\n * -

```

`tanh(NaN)` is `NaN` \* `tanh(x)` is `NaN` when `x > 1` or `x < -1` \* `tanh(1.0)` is `+Inf` \* `tanh(-1.0)` is `-Inf` \* `@SinceKotlin("1.2")` public expect fun `atanh(x: Double): Double` \* Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. \* Special cases: \* - returns `+Inf` if any of arguments is infinite \* - returns `NaN` if any of arguments is `NaN` and the other is not infinite

`@SinceKotlin("1.2")` public expect fun `hypot(x: Double, y: Double): Double` \* Computes the positive square root of the value `[x]`. \* Special cases: \* - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`@SinceKotlin("1.2")` public expect fun `sqrt(x: Double): Double` \* Computes Euler's number `e` raised to the power of the value `[x]`. \* Special cases: \* - `exp(NaN)` is `NaN` \* - `exp(+Inf)` is `+Inf` \* - `exp(-Inf)` is `0.0`

`@SinceKotlin("1.2")` public expect fun `exp(x: Double): Double` \* Computes `exp(x) - 1`. \* This function can be implemented to produce more precise result for `[x]` near zero. \* Special cases: \* - `expm1(NaN)` is `NaN` \* - `expm1(+Inf)` is `+Inf` \* - `expm1(-Inf)` is `-1.0` \* @see `[exp]` function.

`@SinceKotlin("1.2")` public expect fun `expm1(x: Double): Double` \* Computes the logarithm of the value `[x]` to the given `[base]`. \* Special cases: \* - `log(x, b)` is `NaN` if either `x` or `b` are `NaN` \* - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0` \* - `log(+Inf, +Inf)` is `NaN` \* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` \* - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b < 1` \* See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.

`@SinceKotlin("1.2")` public expect fun `log(x: Double, base: Double): Double` \* Computes the natural logarithm (base `E`) of the value `[x]`. \* Special cases: \* - `ln(NaN)` is `NaN` \* - `ln(x)` is `NaN` when `x < 0.0` \* - `ln(+Inf)` is `+Inf` \* - `ln(0.0)` is `-Inf`

`@SinceKotlin("1.2")` public expect fun `ln(x: Double): Double` \* Computes the common logarithm (base 10) of the value `[x]`. \* @see `[ln]` function for special cases.

`@SinceKotlin("1.2")` public expect fun `log10(x: Double): Double` \* Computes the binary logarithm (base 2) of the value `[x]`. \* @see `[ln]` function for special cases.

`@SinceKotlin("1.2")` public expect fun `log2(x: Double): Double` \* Computes `ln(x + 1)`. \* This function can be implemented to produce more precise result for `[x]` near zero. \* Special cases: \* - `ln1p(NaN)` is `NaN` \* - `ln1p(x)` is `NaN` where `x < -1.0` \* - `ln1p(-1.0)` is `-Inf` \* - `ln1p(+Inf)` is `+Inf` \* @see `[ln]` function \* @see `[expm1]` function

`@SinceKotlin("1.2")` public expect fun `ln1p(x: Double): Double` \* Rounds the given value `[x]` to an integer towards positive infinity. \* @return the smallest double value that is greater than or equal to the given value `[x]` and is a mathematical integer. \* Special cases: \* - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `ceil(x: Double): Double` \* Rounds the given value `[x]` to an integer towards negative infinity. \* @return the largest double value that is smaller than or equal to the given value `[x]` and is a mathematical integer. \* Special cases: \* - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `floor(x: Double): Double` \* Rounds the given value `[x]` to an integer towards zero. \* @return the value `[x]` having its fractional part truncated. \* Special cases: \* - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `truncate(x: Double): Double` \* Rounds the given value `[x]` towards the closest integer with ties rounded towards even integer. \* Special cases: \* - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` public expect fun `round(x: Double): Double` \* Returns the absolute value of the given value `[x]`. \* Special cases: \* - `abs(NaN)` is `NaN` \* @see `absoluteValue` extension property for `[Double]`

`@SinceKotlin("1.2")` public expect fun `abs(x: Double): Double` \* Returns the sign of the given value `[x]`: \* - `-1.0` if the value is negative, \* - zero if the value is zero, \* - `1.0` if the value is positive

`@SinceKotlin("1.2")` public expect fun `sign(x: Double): Double` \* Returns the smaller of two values. \* If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` public expect fun `min(a: Double, b: Double): Double` \* Returns the greater of two values. \* If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` public expect fun `max(a: Double, b: Double): Double` // extensions \* Raises this value to the power `[x]`. \* Special cases: \* - `b.pow(0.0)` is `1.0` \* - `b.pow(1.0) == b`



`b.pow(NaN)` is `NaN` `n * - NaN.pow(x)` is `NaN` for `x != 0.0` `n * - b.pow(Inf)` is `NaN` for `abs(b) == 1.0` `n * - b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer `n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.pow(x: Double): Double` `n/n/**` `n * Raises this value to the integer power [n].` `n * n * See the other overload of [pow] for details.` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.pow(n: Int): Double` `n/n/**` `n * Returns the absolute value of this value.` `n * n` `* Special cases:` `n * - NaN.absoluteValue` is `NaN` `n * n * @see abs function` `n * n` `@SinceKotlin("1.2")` `npublic` expect val `Double.absoluteValue: Double` `n/n/**` `n * Returns the sign of this value:` `n * - -1.0` if the value is negative, `n * - zero` if the value is zero, `n * - 1.0` if the value is positive `n * n` `* Special case:` `n * - NaN.sign` is `NaN` `n` `@SinceKotlin("1.2")` `npublic` expect val `Double.sign: Double` `n/n/**` `n * Returns this value with the sign bit same as of the [sign] value.` `n * n` `* If [sign] is NaN` the sign of the result is undefined. `n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.withSign(sign: Double): Double` `n/n/**` `n * Returns this value with the sign bit same as of the [sign] value.` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.withSign(sign: Int): Double` `n/n/**` `n * Returns the ulp (unit in the last place) of this value.` `n * n` `* An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.` `n * n` `* Special Cases:` `n * - NaN.ulp` is `NaN` `n * - x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf` `n * - 0.0.ulp` is `Double.MIN_VALUE` `n` `@SinceKotlin("1.2")` `npublic` expect val `Double.ulp: Double` `n/n/**` `n * Returns the [Double] value nearest to this value in direction of positive infinity.` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.nextUp(): Double` `n/n/**` `n * Returns the [Double] value nearest to this value in direction of negative infinity.` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.nextDown(): Double` `n/n/**` `n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].` `n * n` `* Special cases:` `n * - x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN` `n * - x.nextTowards(x) == x` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.nextTowards(to: Double): Double` `n/n/**` `n * Rounds this [Double] value to the nearest integer and converts the result to [Int].` `n * Ties are rounded towards positive infinity.` `n * n` `* Special cases:` `n * - x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE` `n * - x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE` `n * n` `@throws IllegalArgumentException` when this value is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.roundToInt(): Int` `n/n/**` `n * Rounds this [Double] value to the nearest integer and converts the result to [Long].` `n * Ties are rounded towards positive infinity.` `n * n` `* Special cases:` `n * - x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE` `n * - x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE` `n * n` `@throws IllegalArgumentException` when this value is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `Double.roundToLong(): Long` `n/n// endregion` `n/n/n// region ===== Float Math =====` `n/n/**` `n * Computes the sine of the angle [x] given in radians.` `n * n` `* Special cases:` `n * - sin(NaN|+Inf|-Inf)` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `sin(x: Float): Float` `n/n/**` `n * Computes the cosine of the angle [x] given in radians.` `n * n` `* Special cases:` `n * - cos(NaN|+Inf|-Inf)` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `cos(x: Float): Float` `n/n/**` `n * Computes the tangent of the angle [x] given in radians.` `n * n` `* Special cases:` `n * - tan(NaN|+Inf|-Inf)` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `tan(x: Float): Float` `n/n/**` `n * Computes the arc sine of the value [x];` `n * the returned value is an angle in the range from -PI/2 to PI/2 radians.` `n * n` `* Special cases:` `n * - asin(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `asin(x: Float): Float` `n/n/**` `n * Computes the arc cosine of the value [x];` `n * the returned value is an angle in the range from 0.0 to PI radians.` `n * n` `* Special cases:` `n * - acos(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `acos(x: Float): Float` `n/n/**` `n * Computes the arc tangent of the value [x];` `n * the returned value is an angle in the range from -PI/2 to PI/2 radians.` `n * n` `* Special cases:` `n * - atan(NaN)` is `NaN` `n * n` `@SinceKotlin("1.2")` `npublic` expect fun `atan(x: Float): Float` `n/n/**` `n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];` `n * the returned value is an angle in the range from -PI to PI radians.` `n * n` `* Special cases:` `n * - atan2(0.0, 0.0)` is `0.0` `n * - atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0` `n * - atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0` `n * - atan2(y, +Inf)` is `0.0` for `0 < y <`

$+\text{Inf}$  and  $-0.0$  for  $-\text{Inf} < y < 0$   $\backslash$ n \*  $-\text{atan2}(y, -\text{Inf})$  is  $\text{PI}$  for  $0 < y < +\text{Inf}$  and  $-\text{PI}$  for  $-\text{Inf} < y < 0$   $\backslash$ n \*  $-\text{atan2}(y, 0.0)$  is  $\text{PI}/2$  for  $y > 0$  and  $-\text{PI}/2$  for  $y < 0$   $\backslash$ n \*  $-\text{atan2}(+\text{Inf}, x)$  is  $\text{PI}/2$  for finite  $x$   $\backslash$ n \*  $-\text{atan2}(-\text{Inf}, x)$  is  $-\text{PI}/2$  for finite  $x$   $\backslash$ n \*  $-\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is  $\text{NaN}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun atan2(y: Float, x: Float): Float\n\n/\*\*\n \* Computes the hyperbolic sine of the value [x].\n \* Special cases:\n \*  $-\text{sinh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{sinh}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{sinh}(-\text{Inf})$  is  $-\text{Inf}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun sinh(x: Float): Float\n\n/\*\*\n \* Computes the hyperbolic cosine of the value [x].\n \* Special cases:\n \*  $-\text{cosh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{cosh}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{cosh}(-\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun cosh(x: Float): Float\n\n/\*\*\n \* Computes the hyperbolic tangent of the value [x].\n \* Special cases:\n \*  $-\text{tanh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{tanh}(+\text{Inf})$  is  $1.0$   $\backslash$ n \*  $-\text{tanh}(-\text{Inf})$  is  $-1.0$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun tanh(x: Float): Float\n\n/\*\*\n \* Computes the inverse hyperbolic sine of the value [x].\n \* The returned value is `y` such that  $\text{sinh}(y) == x$ .  
 Special cases:\n \*  $-\text{asinh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{asinh}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{asinh}(-\text{Inf})$  is  $-\text{Inf}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun asinh(x: Float): Float\n\n/\*\*\n \* Computes the inverse hyperbolic cosine of the value [x].  
 The returned value is positive `y` such that  $\text{cosh}(y) == x$ .  
 Special cases:\n \*  $-\text{acosh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{acosh}(x)$  is  $\text{NaN}$  when  $x < 1$   $\backslash$ n \*  $-\text{acosh}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float\n\n/\*\*\n \* Computes the inverse hyperbolic tangent of the value [x].  
 The returned value is `y` such that  $\text{tanh}(y) == x$ .  
 Special cases:\n \*  $-\text{tanh}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{tanh}(x)$  is  $\text{NaN}$  when  $x > 1$  or  $x < -1$   $\backslash$ n \*  $-\text{tanh}(1.0)$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{tanh}(-1.0)$  is  $-\text{Inf}$   $\backslash$ n

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\n\n/\*\*\n \* Computes  $\text{sqrt}(x^2 + y^2)$  without intermediate overflow or underflow.  
 Special cases:\n \* - returns  $+\text{Inf}$  if any of arguments is infinite  
 - returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/\*\*\n \* Computes the positive square root of the value [x].  
 Special cases:\n \*  $-\text{sqrt}(x)$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n/\*\*\n \* Computes Euler's number `e` raised to the power of the value [x].  
 Special cases:\n \*  $-\text{exp}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{exp}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{exp}(-\text{Inf})$  is  $0.0$

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n/\*\*\n \* Computes  $\text{exp}(x)$  - 1.  
 This function can be implemented to produce more precise result for [x] near zero.  
 Special cases:\n \*  $-\text{expm1}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{expm1}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{expm1}(-\text{Inf})$  is  $-1.0$

$\backslash$ n @see [exp] function.

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n/\*\*\n \* Computes the logarithm of the value [x] to the given [base].  
 Special cases:\n \*  $-\text{log}(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$   $\backslash$ n \*  $-\text{log}(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$   $\backslash$ n \*  $-\text{log}(+\text{Inf}, +\text{Inf})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{log}(+\text{Inf}, b)$  is  $+\text{Inf}$  for  $b > 1$  and  $-\text{Inf}$  for  $b < 1$   $\backslash$ n \*  $-\text{log}(0.0, b)$  is  $-\text{Inf}$  for  $b > 1$  and  $+\text{Inf}$  for  $b > 1$

$\backslash$ n \* See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n/\*\*\n \* Computes the natural logarithm (base `E`) of the value [x].  
 Special cases:\n \*  $-\text{ln}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{ln}(x)$  is  $\text{NaN}$  when  $x < 0.0$   $\backslash$ n \*  $-\text{ln}(+\text{Inf})$  is  $+\text{Inf}$   $\backslash$ n \*  $-\text{ln}(0.0)$  is  $-\text{Inf}$

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n\n/\*\*\n \* Computes the common logarithm (base 10) of the value [x].  
 @see [ln] function for special cases.

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n/\*\*\n \* Computes the binary logarithm (base 2) of the value [x].  
 @see [ln] function for special cases.

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n/\*\*\n \* Computes  $\text{ln}(a + 1)$ .  
 This function can be implemented to produce more precise result for [x] near zero.  
 Special cases:\n \*  $-\text{ln1p}(\text{NaN})$  is  $\text{NaN}$   $\backslash$ n \*  $-\text{ln1p}(x)$  is  $\text{NaN}$  where  $x < -1.0$   $\backslash$ n \*  $-\text{ln1p}(-1.0)$  is  $-\text{Inf}$   $\backslash$ n \*  $-\text{ln1p}(+\text{Inf})$  is  $+\text{Inf}$

$\backslash$ n \* @see [ln] function

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] to an integer towards positive infinity.  
 @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.  
 Special cases:\n \*  $-\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

$\backslash$ n @SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] to an integer towards negative infinity.  
 @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 Special cases:\n \* -

`floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `floor(x: Float): Float`: Rounds the given value `[x]` to an integer towards zero.  
`@return` the value `[x]` having its fractional part truncated.  
`Special cases:` `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `truncate(x: Float): Float`: Rounds the given value `[x]` towards the closest integer with ties rounded towards even integer.  
`Special cases:` `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `round(x: Float): Float`: Returns the absolute value of the given value `[x]`.  
`Special cases:` `abs(NaN)` is `NaN`.  
`@see` `absoluteValue` extension property for `[Float]`.  
`@SinceKotlin("1.2")` public expect fun `abs(x: Float): Float`: Returns the sign of the given value `[x]`: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive.  
`Special case:` `sign(NaN)` is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `sign(x: Float): Float`: Returns the smaller of two values.  
`Special cases:` If either value is `NaN`, then the result is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `min(a: Float, b: Float): Float`: Returns the greater of two values.  
`Special cases:` If either value is `NaN`, then the result is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `max(a: Float, b: Float): Float`: Raises this value to the power `[x]`.  
`Special cases:` `b.pow(0.0)` is `1.0`, `b.pow(1.0) == b`, `b.pow(NaN)` is `NaN`, `NaN.pow(x)` is `NaN` for `x != 0.0`, `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`, `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer.  
`@SinceKotlin("1.2")` public expect fun `Float.pow(x: Float): Float`: Raises this value to the integer power `[n]`.  
`See` the other overload of `[pow]` for details.  
`@SinceKotlin("1.2")` public expect fun `Float.pow(n: Int): Float`: Returns the absolute value of this value.  
`Special cases:` `NaN.absoluteValue` is `NaN`.  
`@see` `abs` function.  
`@SinceKotlin("1.2")` public expect val `Float.absoluteValue: Float`: Returns the sign of this value: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive.  
`Special case:` `NaN.sign` is `NaN`.  
`@SinceKotlin("1.2")` public expect val `Float.sign: Float`: Returns this value with the sign bit same as of the `[sign]` value.  
`Special cases:` If `[sign]` is `NaN` the sign of the result is undefined.  
`@SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Float): Float`: Returns this value with the sign bit same as of the `[sign]` value.  
`@SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Int): Float`: Rounds this `[Float]` value to the nearest integer and converts the result to `[Int]`.  
`Ties` are rounded towards positive infinity.  
`Special cases:` `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`, `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`.  
`@throws` `IllegalArgumentException` when this value is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `Float.roundToInt(): Int`: Rounds this `[Float]` value to the nearest integer and converts the result to `[Long]`.  
`Ties` are rounded towards positive infinity.  
`Special cases:` `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`, `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`.  
`@throws` `IllegalArgumentException` when this value is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `Float.roundToLong(): Long`: `endregion` region  
`==== Integer Math =====`  
`Returns` the absolute value of the given value `[n]`.  
`Special cases:` `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow.  
`@see` `absoluteValue` extension property for `[Int]`.  
`@SinceKotlin("1.2")` public expect fun `abs(n: Int): Int`: Returns the smaller of two values.  
`@SinceKotlin("1.2")` public expect fun `min(a: Int, b: Int): Int`: Returns the greater of two values.  
`@SinceKotlin("1.2")` public expect fun `max(a: Int, b: Int): Int`: Returns the absolute value of this value.  
`Special cases:` `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow.  
`@see` `abs` function.  
`@SinceKotlin("1.2")` public expect val `Int.absoluteValue: Int`: Returns the sign of this value: `-1` if the value is negative, `0` if the value is zero, `1` if the value is positive.  
`@SinceKotlin("1.2")` public expect val `Int.sign: Int`: Returns the absolute value of the given value `[n]`.  
`Special cases:` `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an

overflow\n \* \n \* @see absoluteValue extension property for [Long]\n \* ^\n@SinceKotlin("1.2")\n\npublic expect fun  
abs(n: Long): Long\n\n/\*\*\n \* Returns the smaller of two values.\n \* ^\n@SinceKotlin("1.2")\n\npublic expect fun  
min(a: Long, b: Long): Long\n\n/\*\*\n \* Returns the greater of two values.\n \* ^\n@SinceKotlin("1.2")\n\npublic  
expect fun max(a: Long, b: Long): Long\n\n/\*\*\n \* Returns the absolute value of this value.\n \* \n \* Special cases:\n \* - `Long.MIN\_VALUE.absoluteValue` is `Long.MIN\_VALUE` due to an overflow\n \* \n \* @see abs function\n \* ^\n@SinceKotlin("1.2")\n\npublic expect val Long.absoluteValue: Long\n\n/\*\*\n \* Returns the sign of this value:\n \* - `1` if the value is negative,\n \* - `0` if the value is zero,\n \* - `1` if the value is positive\n \* ^\n@SinceKotlin("1.2")\n\npublic expect val Long.sign: Int\n\n\n//  
endregion\n\n"],"names":[],"mappings":"AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAL,UAAW,IAAG,MAA  
M,IAAIC,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAXB,C;SAEL,IAAI,OAAO,O  
AAQ,KAAL,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC  
,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OA  
AoD,CAA5C,KAAL,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAG,CAAC,OAAQ,KAAL,c;G  
;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAL,c;G;EAGlD,M  
AAM,aAAc,GAAE,a;IACiB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,Y  
AAW,WAAY,IAAG,CAAC,OAAQ,KAAL,W;G;EAGpD,MAAM,WAAY,GAAE,a;IAChB,OAAO,CAAE,YAAW,  
U;G;EAGxB,MAAM,aAAc,GAAE,a;IACiB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,cAAe,GAAE,a;IACnB,O  
AAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAL,QAAQ,CAAC,CAAD,CAAI,IA  
AG,CAAC,OAAQ,KAAL,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,OAAO,KAAL,QAAQ,CAAC,CAAD,CAA  
l,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IACbB,OAAO,KAAL,QAAQ,CAAC,CAAD,CAAI,  
IAAG,WAAY,OAAO,CAAC,CAAD,C;G;EAGjD,MAAM,cAAe,GAAE,a;IACnB,IAAI,CAAE,KAAL,IAAV,C;M  
AAgB,OAAO,M;IACvB,IAAI,WAAY,MAAM,YAAY,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAwB,MA  
AM,S;IACnE,OAAO,GAAL,GAAE,KAAL,UAAU,IAAL,KAAL,CAAC,CAAD,EAAL,a;MAAc,OAAO,QAAQ,CA  
AC,CAAD,C;KAAjC,CAAwC,KAAL,CAAC,IAAD,CAAO,GAAE,G;G;EAG/F,MAAM,kBAAmB,GAAE,e;IACv  
B,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,YAAa,GAAE,gB;IACjB,IAAI,C  
AAE,KAAL,CAAV,C;MACl,OAAO,I;KAEX,IAAI,CAAE,KAAL,IAAK,IAAG,CAAE,KAAL,IAAK,IAAG,CAAC,  
MAAM,WAAY,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAL,CAAC,OAAvE,C;MACl,OAAO,K;KAGX,KA  
AK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,CAAE,GAAE,CAAIC,EAAqC,CAAC,EAAtC,C;MA  
Cl,IAAI,CAAC,MAAM,OAAO,CAAC,CAAC,CAAC,CAAD,CAAF,EAAO,CAAC,CAAC,CAAD,CAAR,CAAIB  
,C;QACl,OAAO,K;;IAGf,OAAO,I;G;EAGX,MAAM,gBAAiB,GAAE,gB;IACrB,OAAO,MAAM,OAAO,YAAY,s  
BAAsB,CAAC,CAAD,EAAL,CAAJ,C;G;EAGlD,MAAM,cAAe,GAAE,e;IACnB,IAAI,GAAL,KAAL,IAAZ,C;MA  
AkB,OAAO,C;IACzB,IAAI,SAAS,C;IACb,KAAL,IAAI,IAAI,CAAR,EAAW,IAAI,GAAG,OAAvB,EAAgC,CAA  
E,GAAE,CAApC,EAAuC,CAAC,EAAxC,C;MACl,MAAO,GAAsB,CAAjB,EAAG,GAAE,MAAO,GAAE,CAAG  
,IAAE,MAAM,SAAS,CAAC,GAAG,CAAC,CAAD,CAAJ,CAAU,GAAE,C;;IAE7D,OAAO,M;G;EAGX,MAAM,  
kBAAmB,GAAE,e;IACvB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,mBAA  
oB,GAAE,iB;IACxB,KAAL,KAAL,CAAC,MAAM,gBAAP,C;G;ECPFd,MAAM,eAAgB,GAAE,mB;IACpB,CA  
AC,aAAc,GAAE,I;IACjB,OAAO,C;G;EAGX,MAAM,uBAAwB,GAAE,4C;IAC5B,MAAM,IAAL,GAAE,M;IAC  
b,MAAM,IAAL,GAAE,M;IACb,MAAM,aAAc,GAAE,I;IACtB,OAAO,mBAAmB,CAAC,MAAD,EAAS,MAAT,  
EAAiB,6BAA6B,CAAC,UAAD,CAA9C,C;G;EAG9B,iD;IACl,GAAG,WAAY,GAAE,sBAAsB,CAAC,OAAO,M  
AAO,KAAL,UAAW,GAAE,KAAL,QAAP,GAAsB,KAAL,UAArD,C;IACvC,GAAG,YAAa,GAAE,G;IACiB,OA  
AO,G;G;EAGX,IAAI,gCAAgC,CACbC,UACa,QAAS,IAAT,wBAAsC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,k  
B;GADvB,CADb,aAlE,QAAS,IAAT,wBAAsC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CADgC  
,EAShC,UACa,QAAS,IAAT,wBAAsC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,kB;GADvB,CADb,aAlE,QAAS,I  
AAT,wBAAsC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CATgC,C;EAmBpC,uC;IACl,IAAI,KA  
AK,MAAO,KAAL,IAApB,C;MACl,KAAL,MAAO,GAAE,aACE,CAAC,KAAL,qBAAsB,EAA3B,CADF,aAEC,I  
AFD,aAGC,EAHD,cAlE,EAJF,SAKH,EALG,iBAMK,EANL,C;KASIB,OAAO,KAAL,M;G;EChDhB,MAAM,QA  
AS,GAAE,a;IACb,OAAoB,CAAZ,CAAE,GAAE,KAAQ,KAAG,EAAG,IAAG,E;G;EAGjC,MAAM,OAAQ,GAA  
E,a;IACZ,OAAkB,CAAV,CAAE,GAAE,GAAM,KAAG,EAAG,IAAG,E;G;EAG/B,MAAM,OAAQ,GAAE,a;IAC

Z,OAAO,CAAE,GAAE,K;G;EAGf,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,MAAM,KAAM,GAAE,CAAF,GAAM,MAAM,KAAM,WAAW,CAAC,CAAD,C;G;EAGhE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,MAAM,KAAM,GAAE,CAAC,MAAM,EAAT,GAAC,MAAM,YAAY,CAAC,CAAD,C;G;EAGpE,MAAM,cAAe,GAAE,a;IACnB,OAAO,MAAM,QAAQ,CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGzB,MAAM,aAAc,GAAE,a;IACIB,OAAO,MAAM,OAAO,CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGxB,MAAM,eAAgB,GAAE,a;IACpB,OAAO,CAAC,C;G;EAGZ,MAAM,aAAc,GAAE,a;IACIB,OAAO,MAAM,OAAO,CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,IAAI,CAAE,GAAE,UAAAR,C;MAAoB,OAAO,U;IAC3B,IAAI,CAAE,GAAE,WAAR,C;MAAqB,OAAO,W;IAC5B,OAAO,CAAE,GAAE,C;G;EAGf,MAAM,YAAa,GAAE,a;IACjB,IAAI,CAAE,IAAG,IAAT,C;MAAe,OAAO,C;IACtB,IAAI,CAAE,YAAW,MAAM,UAAvB,C;MAAmC,OAAO,C;IAC1C,OAAO,IAAI,MAAM,UAAV,CAAqB,CAArB,C;G;EAGX,MAAM,UAAW,GAAE,a;IACf,IAAI,CAAE,IAAG,IAAT,C;MAAe,OAAO,C;IACtB,OAAO,MAAM,OAAO,CAAC,CAAD,C;G;ECIDxB,MAAM,OAAQ,GAAE,sB;IACZ,IAAI,IAAK,IAAG,IAAZ,C;MACI,OAAO,IAAK,IAAG,I;KAGnB,IAAI,IAAK,IAAG,IAAZ,C;MACI,OAAO,K;KAGX,IAAI,IAAK,KAAL,IAAb,C;MACI,OAAO,IAAK,KAAI,I;KAGpB,IAAI,OAAO,IAAK,KAAL,QAAS,IAAG,OAAO,IAAI,OAAQ,KAAL,UAAvD,C;MACI,OAAO,IAAI,OAAO,CAAC,IAAD,C;KAGtB,IAAI,OAAO,IAAK,KAAL,QAAS,IAAG,OAAO,IAAK,KAAL,QAAhD,C;MACI,OAAO,IAAK,KAAL,IAAK,KAAL,IAAK,KAAL,CAAE,IAAG,CAAE,GAAE,IAAK,KAAL,CAAE,GAAE,IAAnC,C;KAGzB,OAAO,IAAK,KAAL,I;G;EAGpB,MAAM,SAAU,GAAE,e;IACd,IAAI,GAAL,IAAG,IAAX,C;MACI,OAAO,C;KAEX,IAAI,UAAU,OAAO,G;IACrB,IAAI,QAAS,KAAL,OAAjB,C;MACI,OAAO,UAAW,KAAL,OAAO,GAAAG,SAAU,GAAE,GAAG,SAAS,EAAd,GAAMb,iBAAiB,CAAC,GAAD,C;KAEf,IAAI,UAAW,KAAL,OAAAnB,C;MACI,OAAO,iBAAiB,CAAC,GAAD,C;KAE5B,IAAI,QAAS,KAAL,OAAjB,C;MACI,OAAO,MAAM,eAAe,CAAC,GAAD,C;KAEhC,IAAI,SAAU,KAAL,OAAiB,C;MACI,OAAO,MAAM,CAAC,GAAD,C;KAGjB,IAAI,MAAM,MAAM,CAAC,GAAD,C;IACHb,OAAO,iBAAiB,CAAC,GAAD,C;G;EAI5B,MAAM,SAAU,GAAE,a;IACd,IAAI,CAAE,IAAG,IAAT,C;MACI,OAAO,M;WAEN,IAAI,MAAM,WAAW,CAAC,CAAD,CAArB,C;MACD,OAAO,O;;MAGP,OAAO,CAAC,SAAS,E;;G;EAKzB,IAAI,WAAW,a;EAGf,IAAI,iCAAiC,sB;EAErC,gC;IACI,IAAI,EAEE,8BAA+B,IAAG,GAAPc,CAAJ,C;MACI,IAAI,OAAQ,IAAI,OAAO,EAAG,GAAE,QAAU,GAAE,C;MACxC,MAAM,eAAe,CAAC,GAAD,EAAM,8BAAN,EAASc,QAAU,IAAV,cAA4B,KAA5B,CAAtC,C;KAEzB,OAAO,GAAAG,CAAC,8BAAD,C;G;EAGd,gC;IACI,IAAI,OAAO,C;IACX,KAAM,IAAI,IAAI,CAAb,EAAGb,CAAE,GAAE,GAAG,OAAvB,EAAGc,CAAC,EAAjC,C;MACI,IAAI,OAAQ,GAAG,WAAW,CAAC,CAAD,C;MAC1B,IAAM,GAAG,IAAK,GAAE,EAAG,GAAE,IAAM,GAAE,C;;IAEjC,OAAO,I;G;EAGX,MAAM,iBAAkB,GAAE,iB;EC9C1B,MAAM,KAAM,GAAE,qB;IAKZ,IAAI,KAAM,GAAE,GAAL,GAAE,C;IAMIB,IAAI,MAAO,GAAE,IAAK,GAAE,C;G;EAGtB,MAAM,KAAM,WAAW,GAAE,OACf,OADe,cAET,MAFS,cAGV,EAHU,C;EAgBzB,MAAM,KAAM,UAAW,GAAE,E;EAQxB,MAAM,KAAM,QAAS,GAAE,iB;IACpB,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,GAAE,GAA7B,C;MACE,IAAI,YAAY,MAAM,KAAM,UAAU,CAAC,KAAD,C;MACrC,IAAI,SAAJ,C;QACE,OAAO,S;QAIX,IAAI,MAAM,IAAI,MAAM,KAAV,CAAgB,KAAM,GAAE,CAAxB,EA2B,KAAM,GAAE,CAAE,GAAE,EAf,GAAO,CAA5C,C;IACV,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,GAAE,GAA7B,C;MACE,MAAM,KAAM,KAAM,UAAU,CAAC,KAAD,CAAQ,GAAE,G;KAEjC,OAAO,G;G;EAYT,MAAM,KAAM,WAAW,GAAE,iB;IACvB,IAAI,KAAM,CAAC,KAAD,CAAT,C;MACE,OAAO,MAAM,KAAM,K;WACb,IAAI,KAAM,IAAG,CAAC,MAAM,KAAM,gBAazB,C;MACL,OAAO,MAAM,KAAM,U;WACb,IAAI,KAAM,GAAE,CAAE,IAAG,MAAM,KAAM,gBA5B,C;MACL,OAAO,MAAM,KAAM,U;WACb,IAAI,KAAM,GAAE,CAAZ,C;MACL,OAAO,MAAM,KAAM,WAAW,CAAC,CAAC,KAf,CAAQ,OAAO,E;;MAE5C,OAAO,IAAI,MAAM,KAAM,CAAF,KAAM,GAAE,MAAM,KAAM,gBAAkB,GAAE,CADrC,EAf,KAAM,GAAE,MAAM,KAAM,gBAAkB,GAAE,CAFrC,C;;G;EAcX,MAAM,KAAM,SAAU,GAAE,6B;IACrB,OAAO,IAAI,MAAM,KAAM,CAAgB,OAAhB,EAyB,QAazB,C;G;EAWT,MAAM,KAAM,WAAW,GAAE,0B;IACvB,IAAI,GAAG,OAAQ,IAAG,CAAI,C;MACE,MAAM,KAAM,CAAC,mCAAD,C;KAGb,IAAI,QAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE,CAAE,IAAG,EAAG,GAAE,KAAtB,C;MACE,MAAM,KAAM,CAAC,sBAAuB,GAAE,KAA1B,C;KAGb,IAAI,GAAG,OAAO,CAAC,CAAD,CAAI,IAAG,GAARb,C;MACE,OAAO,MAAM,KAAM,WAAW,CAAC,GAAG,UAAU,CAAC,CAAD,CAAD,EAAMb,KAAnB,CAAyB,OAAO,E;WACxD,IAAI,GAAG,QAQ,CAAC,GAAD,CAAM,IAAG,CAAxB,C;MACL,MAAM,KAAM,CAAC,+CAAgD,GAAE,GAAAnD,C;KAKb,IAAI,eAAe,MAAM,KAAM,WAAW,CAAC,IAAI,IA

AI,CAAC,KAAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI,SAAS,MAAM,KAAK,K;IACxB,KAAK,IAAI,IAAI,CAA  
b,EAAgB,CAAE,GAAE,GAAG,OAAvB,EAAgC,CAAE,IAAG,CAArC,C;MACE,IAAI,OAAO,IAAI,IAAI,CAAC  
,CAAD,EAAI,GAAG,OAAQ,GAAE,CAAjB,C;MACnB,IAAI,QAAQ,QAAQ,CAAC,GAAG,UAAU,CAAC,CAA  
D,EAAI,CAAE,GAAE,IAAR,CAAd,EAA6B,KAA7B,C;MACpB,IAAI,IAAK,GAAE,CAAX,C;QACE,IAAI,QAA  
Q,MAAM,KAAK,WAAW,CAAC,IAAI,IAAI,CAAC,KAAD,EAAQ,IAAR,CAAT,C;QACIC,MAAO,GAAE,MAA  
M,SAAS,CAAC,KAAD,CAAO,IAAI,CAAC,MAAM,KAAK,WAAW,CAAC,KAAD,CAAvB,C;;QAEnC,MAAO,  
GAAE,MAAM,SAAS,CAAC,YAAD,C;QACxB,MAAO,GAAE,MAAM,IAAI,CAAC,MAAM,KAAK,WAAW,CA  
AC,KAAD,CAAvB,C;;IAGvB,OAAO,M;G;EAcT,MAAM,KAAK,gBAAiB,GAAE,CAAE,IAAG,E;EAOnC,MA  
AM,KAAK,gBAAiB,GAAE,CAAE,IAAG,E;EAOnC,MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,  
GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,C;EAOIC,  
MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gB  
AAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gBAAiB,GACxB,MA  
AM,KAAK,gBAAiB,GAAE,C;EAIIC,MAAM,KAAK,KAAM,GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD,C;EA  
ItC,MAAM,KAAK,IAAK,GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD,C;EAIrC,MAAM,KAAK,QAAS,GAAE,  
MAAM,KAAK,QAAQ,CAAC,EAAD,C;EAIzC,MAAM,KAAK,UAAW,GACIB,MAAM,KAAK,SAAS,CAAC,aA  
AW,GAAE,CAAd,EAAiB,UAAW,GAAE,CAA9B,C;EAIxB,MAAM,KAAK,UAAW,GAAE,MAAM,KAAK,SAA  
S,CAAC,CAAD,EAAI,aAAW,GAAE,CAAjB,C;EAO5C,MAAM,KAAK,YAAa,GAAE,MAAM,KAAK,QAAQ,C  
AAC,CAAE,IAAG,EAAN,C;EAI7C,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAO,IAAI,K;G;EAKb,M  
AAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,MAAM,KAAK,gBAAiB,GACzC,IAAI  
,mBAAmB,E;G;EAIhC,MAAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,IAAI,K;G;E  
AQ1B,MAAM,KAAK,UAAU,SAAU,GAAE,qB;IAC/B,IAAI,QAAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE  
,CAAE,IAAG,EAAG,GAAE,KAAtB,C;MACE,MAAM,KAAK,CAAC,sBAAuB,GAAE,KAA1B,C;KAGb,IAAI,I  
AAI,OAAO,EAaf,C;MACE,OAAO,G;KAGT,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,IAAI,WAAW,CAAC,  
MAAM,KAAK,UAAZ,CAAnB,C;QAGE,IAAI,YAAy,MAAM,KAAK,WAAW,CAAC,KAAD,C;QACtC,IAAI,M  
AAM,IAAI,IAAI,CAAC,SAAD,C;QACIB,IAAI,MAAM,GAAG,SAAS,CAAC,SAAD,CAAW,SAAS,CAAC,IAA  
D,C;QACIC,OAAO,GAAG,SAAS,CAAC,KAAD,CAAQ,GAAE,GAAG,MAAM,EAAE,SAAS,CAAC,KAAD,C;;  
QAEjD,OAAO,GAAI,GAAE,IAAI,OAAO,EAAE,SAAS,CAAC,KAAD,C;;KAMvC,IAAI,eAAe,MAAM,KAAK,  
WAAW,CAAC,IAAI,IAAI,CAAC,KAAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI,MAAM,I;IACV,IAAI,SAAS,E;IA  
Cb,OAAO,IAAP,C;MACE,IAAI,SAAS,GAAG,IAAI,CAAC,YAAD,C;MACpB,IAAI,SAAS,GAAG,SAAS,CAAC  
,MAAM,SAAS,CAAC,YAAD,CAAhB,CAA+B,MAAM,E;MAC9D,IAAI,SAAS,MAAM,SAAS,CAAC,KAAD,C;  
MAE5B,GAAI,GAAE,M;MACN,IAAI,GAAG,OAAO,EAAd,C;QACE,OAAO,MAAO,GAAE,M;;QAEhB,OAAO,  
MAAM,OAAQ,GAAE,CAAvB,C;UACE,MAAO,GAAE,GAAI,GAAE,M;;QAEjB,MAAO,GAAE,EAAG,GAAE,  
MAAO,GAAE,M;;G;EAO7B,MAAM,KAAK,UAAU,YAAa,GAAE,Y;IACIC,OAAO,IAAI,M;G;EAKb,MAAM,K  
AAK,UAAU,WAAy,GAAE,Y;IACjC,OAAO,IAAI,K;G;EAKb,MAAM,KAAK,UAAU,mBAAoB,GAAE,Y;IACz  
C,OAAQ,IAAI,KAAM,IAAG,CAAG,GACpB,IAAI,KADgB,GACR,MAAM,KAAK,gBAAiB,GAAE,IAAI,K;G;E  
AQpD,MAAM,KAAK,UAAU,cAAe,GAAE,Y;IACpC,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,IAAI,WAAW,  
CAAC,MAAM,KAAK,UAAZ,CAAnB,C;QACE,OAAO,E;;QAEp,OAAO,IAAI,OAAO,EAAE,cAAc,E;;MAGpC,  
IAAI,MAAM,IAAI,MAAO,IAAG,CAAE,GAAE,IAAI,MAAN,GAAe,IAAI,K;MAC7C,KAAK,IAAI,MAAM,EA  
Af,EAAMB,GAAI,GAAE,CAAzB,EAA4B,GAAG,EAAB/C;QACE,IAAuB,CAAIB,GAAI,GAAG,CAAE,IAAG,  
GAAM,KAAG,CAA1B,C;UACE,K;;MAGJ,OAAO,IAAI,MAAO,IAAG,CAAE,GAAE,GAAI,GAAE,EAAR,GAA  
a,GAAI,GAAE,C;;G;EAM9C,MAAM,KAAK,UAAU,OAAQ,GAAE,Y;IAC7B,OAAO,IAAI,MAAO,IAAG,CAAE  
,IAAG,IAAI,KAAM,IAAG,C;G;EAKzC,MAAM,KAAK,UAAU,WAAy,GAAE,Y;IACjC,OAAO,IAAI,MAAO,G  
AAE,C;G;EAKtB,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAuB,CAAf,IAAI,KAAM,GAAE,CAAG,K  
AAG,C;G;EAQ5B,MAAM,KAAK,UAAU,WAAy,GAAE,iB;IACjC,OAAQ,IAAI,MAAO,IAAG,KAAK,MAAQ,I  
AAI,IAAI,KAAM,IAAG,KAAK,K;G;EAQ3D,MAAM,KAAK,UAAU,cAAe,GAAE,iB;IACpC,OAAQ,IAAI,MAA  
O,IAAG,KAAK,MAAQ,IAAI,IAAI,KAAM,IAAG,KAAK,K;G;EAQ3D,MAAM,KAAK,UAAU,SAAU,GAAE,iB;  
IAC/B,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,gBAAiB,GAAE,iB  
;IACtC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAQhC,MAAM,KAAK,UAAU,YAAa,GAAE,iB;I

ACIC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,mBAAoB,GAAE,iB;  
;IACzC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAUhC,MAAM,KAAK,UAAU,QAAS,GAAE,iB;I  
AC9B,IAAI,IAAI,WAAW,CAAC,KAAD,CAAnB,C;MACE,OAAO,C;KAGT,IAAI,UAAU,IAAI,WAAW,E;IAC7  
B,IAAI,WAAW,KAAK,WAAW,E;IAC/B,IAAI,OAAQ,IAAG,CAAC,QAaHb,C;MACE,OAAO,E;KAET,IAAI,C  
AAC,OAAQ,IAAG,QAaHb,C;MACE,OAAO,C;KAIT,IAAI,IAAI,SAAS,CAAC,KAAD,CAAO,WAAW,EAAnC,  
C;MACE,OAAO,E;;MAEP,OAAO,C;;G;EAMX,MAAM,KAAK,UAAU,OAAQ,GAAE,Y;IAC7B,IAAI,IAAI,WA  
AW,CAAC,MAAM,KAAK,UAAZ,CAAnB,C;MACE,OAAO,MAAM,KAAK,U;;MAEiB,OAAO,IAAI,IAAI,EA  
E,IAAI,CAAC,MAAM,KAAK,IAAZ,C;;G;EAUzB,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAG1B,IAAI,MAAM  
,IAAI,MAAO,KAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAI,E;I  
ACxB,IAAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAI,E;IAC1B,IAAI,MAAM,K  
AAK,MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAK,KAAM,KAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAA  
E,K;IAEvB,IAAI,MAAM,CAAV,EAaA,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAa+B,MAAM,C;IACrC,GA  
AI,IAAG,GAAI,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GA  
AE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,I  
AAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,K;IACP,OAAO  
,MAAM,KAAK,SAAS,CAAE,GAAL,IAAG,EAAL,GAAE,GAaf,EAaqB,GAAL,IAAG,EAAL,GAAE,GAAL,C;G;  
EAS7B,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,EAAb,C;G;EA  
SjB,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,IAAI,IAAI,OAAO,EAaf,C;MACE,OAAO,MAAM,KAAK,K  
;WAcB,IAAI,KAAK,OAAO,EAaHb,C;MACL,OAAO,MAAM,KAAK,K;KAGpB,IAAI,IAAI,WAAW,CAAC,M  
AAM,KAAK,UAAZ,CAAnB,C;MACE,OAAO,KAAK,MAAM,EAAG,GAAE,MAAM,KAAK,UAb,GAA0B,M  
AAM,KAAK,K;WACrD,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO,IAAI,M  
AAM,EAAG,GAAE,MAAM,KAAK,UAb,GAA0B,MAAM,KAAK,K;KAG3D,IAAI,IAAI,WAAW,EAAnB,C;M  
ACE,IAAI,KAAK,WAAW,EAapB,C;QACE,OAAO,IAAI,OAAO,EAaE,SAAS,CAAC,KAAK,OAAO,EAAb,C;;  
QAE7B,OAAO,IAAI,OAAO,EAaE,SAAS,CAAC,KAAD,CAAO,OAAO,E;;WAExC,IAAI,KAAK,WAAW,EAap  
B,C;MACL,OAAO,IAAI,SAAS,CAAC,KAAK,OAAO,EAAb,CAAgB,OAAO,E;KAI7C,IAAI,IAAI,SAAS,CAAC,  
MAAM,KAAK,YAAZ,CAA0B,IACvC,KAAK,SAAS,CAAC,MAAM,KAAK,YAAZ,CADIB,C;MAEE,OAAO,M  
AAM,KAAK,WAAW,CAAC,IAAI,SAAS,EAAG,GAAE,KAAK,SAAS,EAajC,C;KAM/B,IAAI,MAAM,IAAI,M  
AAO,KAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAI,E;IACxB,I  
AAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAI,E;IAC1B,IAAI,MAAM,KAAK,  
MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAK,KAAM,KAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAAE,K;I  
AEvB,IAAI,MAAM,CAAV,EAaA,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAa+B,MAAM,C;IACrC,GAAL,IA  
AG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;I  
ACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,G  
AAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,G  
AAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,  
GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAI,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,  
GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,G;IACjD,GAAL,IAA  
G,K;IACP,OAAO,MAAM,KAAK,SAAS,CAAE,GAAL,IAAG,EAAL,GAAE,GAaf,EAaqB,GAAL,IAAG,EAAL,G  
AAE,GAAL,C;G;EAS7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,IAAI,KAAK,OAAO,EAaHb,C;MACE  
,MAAM,KAAK,CAAC,kBAAD,C;WACN,IAAI,IAAI,OAAO,EAaf,C;MACL,OAAO,MAAM,KAAK,K;KAGpB,  
IAAI,IAAI,WAAW,CAAC,MAAM,KAAK,UAAZ,CAAnB,C;MACE,IAAI,KAAK,WAAW,CAAC,MAAM,KAA  
K,IAAZ,CAakB,IACIC,KAAK,WAAW,CAAC,MAAM,KAAK,QAaz,CADpB,C;QAEe,OAAO,MAAM,KAAK,  
U;aAcB,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;QACL,OAAO,MAAM,KAAK,I;;QAGiB,  
IAAI,WAAW,IAAI,WAAW,CAAC,CAAD,C;QAC9B,IAAI,SAAS,QAAQ,IAAI,CAAC,KAAD,CAAO,UAAU,C  
AAC,CAAD,C;QAC1C,IAAI,MAAM,WAAW,CAAC,MAAM,KAAK,KAAZ,CAArB,C;UACE,OAAO,KAAK,W  
AAW,EAAG,GAAE,MAAM,KAAK,IAAb,GAAoB,MAAM,KAAK,Q;;UAEzD,IAAI,MAAM,IAAI,SAAS,CAAC,  
KAAK,SAAS,CAAC,MAAD,CAaf,C;UACvB,IAAI,SAAS,MAAM,IAAI,CAAC,GAAG,IAAI,CAAC,KAAD,CA  
AR,C;UACvB,OAAO,M;;;WAGN,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO

,MAAM,KAAK,K;KAGpB,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,KAAK,WAAW,EAAPB,C;QACE,OAAO,IAAI,OAAO,EAAE,IAAI,CAAC,KAAK,OAAO,EAAb,C;;QAExB,OAAO,IAAI,OAAO,EAAE,IAAI,CAAC,KAAD,CAAO,OAAO,E;;WAEnC,IAAI,KAAK,WAAW,EAAPB,C;MACL,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,EAAb,CAAgB,OAAO,E;KAQxC,IAAI,MAAM,MAAM,KAAK,K;IACrB,IAAI,MAAM,I;IACV,OAAO,GAAG,mBAAmB,CAAC,KAAD,CAA7B,C;MAGE,IAAI,SAAS,IAAI,IAAI,CAAC,CAAD,EAAl,IAAI,MAAM,CAAC,GAAG,SAAS,EAAG,GAAE,KAAK,SAAS,EAAhC,CAAd,C;MAIrB,IAAI,OAAO,IAAI,KAAK,CAAC,IAAI,IAAI,CAAC,MAAD,CAAS,GAAE,IAAI,IAAxB,C;MACpB,IAAI,QAAS,IAAK,IAAG,EAAl,GAAE,CAAF,GAAM,IAAI,IAAI,CAAC,CAAD,EAAl,IAAK,GAAE,EAAX,C;MAIvC,IAAI,YAAY,MAAM,KAAK,WAAW,CAAC,MAAD,C;MACtC,IAAI,YAAY,SAAS,SAAS,CAAC,KAAD,C;MACiC,OAAO,SAAS,WAAW,EAAG,IAAG,SAAS,YAAY,CAAC,GAAD,CAAtD,C;QACE,MAAO,IAAG,K;QACV,SAAU,GAAE,MAAM,KAAK,WAAW,CAAC,MAAD,C;QACiC,SAAU,GAAE,SAAS,SAAS,CAAC,KAAD,C;;MAKhC,IAAI,SAAS,OAAO,EAAPB,C;QACE,SAAU,GAAE,MAAM,KAAK,I;OAGzB,GAAl,GAAE,GAAG,IAAI,CAAC,SAAD,C;MACb,GAAl,GAAE,GAAG,SAAS,CAAC,SAAD,C;;IAEpB,OAAO,G;G;EAST,MAAM,KAAK,UAAU,OAAQ,GAAE,iB;IAC7B,OAAO,IAAI,SAAS,CAAC,IAAI,IAAI,CAAC,KAAD,CAAO,SAAS,CAAC,KAAD,CAAzB,C;G;EAKtB,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,CAAC,IAAI,KAAN,EAAa,CAAC,IAAI,MAAIB,C;G;EAS7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,GAAl,GAAE,iB;IACzB,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,UAAW,GAAE,mB;IACHC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAF,C;MACE,OAAO,I;;MAEP,IAAI,MAAM,IAAI,K;MACd,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,OAAO,IAAI,M;QACf,OAAO,MAAM,KAAK,SAAS,CACvB,GAAl,IAAG,OADgB,EAETB,IAAK,IAAG,OAAS,GAAG,GAAl,KAAK,EAAG,GAAE,OAFZ,C;;QAI3B,OAAO,MAAM,KAAK,SAAS,CAAC,CAAD,EAAl,GAAl,IAAI,OAAQ,GAAE,EAAtB,C;;G;EAWjC,MAAM,KAAK,UAAU,WAAW,GAAE,mB;IACjC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAF,C;MACE,OAAO,I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OAAO,MAAM,KAAK,SAAS,CACtB,GAAl,KAAl,OAAS,GAAG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,IAAG,OAFc,C;;QAI3B,OAAO,MAAM,KAAK,SAAS,CACvB,IAAK,IAAI,OAAQ,GAAE,EADI,EAEvB,IAAK,IAAG,CAAE,GAAE,CAAF,GAAM,EAFO,C;;G;EAejC,MAAM,KAAK,UAAU,mBAAb,GAAE,mB;IACzC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAF,C;MACE,OAAO,I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OAAO,MAAM,KAAK,SAAS,CACtB,GAAl,KAAl,OAAS,GAAG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,KAAl,OAFc,C;aAGtB,IAAI,OAAQ,IAAG,EAaf,C;QACL,OAAO,MAAM,KAAK,SAAS,CAAC,IAAD,EAAO,CAAP,C;;QAE3B,OAAO,MAAM,KAAK,SAAS,CAAC,IAAK,KAAK,OAAQ,GAAE,EAARb,EAAOb,CAAlB,C;;G;EAMjC,MAAM,KAAK,UAAU,OAAQ,GAAE,iB;IAC3B,OAAO,KAAM,YAAW,MAAM,KAAM,IAAG,IAAI,WAAW,CAAC,KAAD,C;G;EAGID,MAAM,KAAK,UAAU,gBAAlB,GAAE,MAAM,KAAK,UAAU,Q;EAE7D,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,IAAI,CAAC,MAAM,KAAK,IAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,IAAI,CAAC,MAAM,KAAK,QAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,QAAS,GAAE,Y;IAC5B,OAAO,IAAI,SAAS,E;G;EAGxB,MAAM,KAAK,UAAU,UAAW,GAAE,Y;IAC9B,OAAO,I;G;EAGX,MAAM,KAAK,UAAU,WAAW,GAAE,MAAM,KAAK,UAAU,O;EACxD,MAAM,KAAK,UAAU,IAAK,GAAE,MAAM,KAAK,UAAU,I;EAEjD,MAAM,KAAK,UAAU,QAAS,GAAE,iB;IAC5B,OAAO,IAAI,MAAM,OAAO,OAAO,UAAxB,CAAmC,IAAnC,EAAYC,KAAZC,C;G;EC1zBX,MAAM,aAAc,GAAE,2B;G;EAGtB,MAAM,qBAAsB,GAAE,oB;IAC1B,OAAO,G;G;EAGX,MAAM,aAAc,GAAE,e;IACIB,IAAI,IAAI,Y;MACJ,CAAE,GAAE,GAAG,E;MACP,OAAO,CAAC,MAAM,CAAC,IAAD,EAAO,SAAP,C;K;IAEIB,OAAO,Y;MACH,OAAO,CAAC,MAAM,CAAC,IAAD,EAAO,SAAP,C;K;G;EAItB,MAAM,SAAU,GAAE,gB;IACd,OAAO,kB;MACH,OAAO,OAAO,MAAO,KAAl,I;K;G;EAIjC,MAAM,aAAc,GAAE,iB;IACIB,OAAO,kB;MACH,OAAO,MAAM,OAAO,CAAC,MAAD,EAAS,KAAT,C;K;G;EAI5B,MAAM,OAAQ,GAAE,c;IACZ,OAAO,kB;MACH,OAAO,MAAO,IAAG,IAAK,IAAG,EAAE,CAAC,MAAD,C;K;G;EAIInC,MAAM,aAAc,GAAE,gB;IACIB,OAAO,kB;MACH,OAAO,CAAC,CAAC,MAAD,CAAS,IAAG,CAA



C,CAAC,MAAD,C;K;G;EAI7B,MAAM,qBAAsB,GAAE,wC;G;EAG9B,MAAM,YAAa,GAAE,iB;IACjB,OAAO,  
K;G;EAGX,MAAM,gBAAiB,GAAE,qB;IACrB,gBAAgB,E;G;EAGpB,MAAM,oBAaQb,GAAE,qB;IACzB,gBA  
AgB,E;G;EAGpB,MAAM,kBAAmB,GAAE,qB;IACvB,gBAAgB,E;G;EAGpB,MAAM,mBAaOb,GAAE,4B;IACx  
B,gBAAgB,E;G;EAGpB,MAAM,6BAA8B,GAAE,yB;IAClC,gBAAgB,E;G;EAGpB,4B;IACl,MAAM,IAAI,KAAl  
,CACF,iDAaKd,GAClD,qDAAsD,GACtD,uDAHE,C;G;EAMV,MAAM,gBAAiB,GAAE,4B;IACrB,OAAO,Y;M  
ACH,OAAO,Y;K;G;ECjFf,MAAM,UAAW,GAAE,gB;IACf,IAAI,QAAQ,OAAO,C;IACnB,IAAI,KAAM,KAAl,Q  
AAd,C;MACl,IAAI,OAAO,CAAE,KAAl,QAAjB,C;QACl,OAAO,MAAM,gBAAgB,CAAC,CAAD,EAAI,CAAJ,  
C;OAEjC,OAAO,MAAM,mBAAmB,CAAC,CAAD,EAAI,CAAJ,C;KAEPc,IAAI,KAAM,KAAl,QAAS,IAAG,K  
AAM,KAAl,SAAPc,C;MACl,OAAO,MAAM,mBAAmB,CAAC,CAAD,EAAI,CAAJ,C;KAEPc,OAAO,CAAC,g  
BAAgB,CAAC,CAAD,C;G;EAG5B,MAAM,mBAaOb,GAAE,gB;IACxB,OAAO,CAAE,GAAE,CAAE,GAAE,E  
AAF,GAAO,CAAE,GAAE,CAAE,GAAE,CAAF,GAAM,C;G;EAGpC,MAAM,gBAAiB,GAAE,gB;IACrB,IAAI,C  
AAE,GAAE,CAAR,C;MAAW,OAAO,E;IAClB,IAAI,CAAE,GAAE,CAAR,C;MAAW,OAAO,C;IAEiB,IAAI,CA  
AE,KAAl,CAAV,C;MACl,IAAI,CAAE,KAAl,CAAV,C;QAAa,OAAO,C;MAEPb,IAAI,KAAl,CAAE,GAAE,C;  
MACb,OAAO,EAAG,KAAl,CAAE,GAAE,CAAE,GAAE,CAAF,GAAO,EAAG,GAAE,CAAE,GAAE,EAAG,GA  
AO,C;KAG7C,OAAO,CAAE,KAAl,CAAE,GAAG,CAAE,KAAl,CAAE,GAAE,CAAF,GAAM,CAAJB,GAASB,E  
;G;EAGzC,MAAM,QAAS,GAAE,iB;IACb,OAAO,MAAM,OAAO,CAAC,KAAl,GAAC,CAAP,C;G;EAGxB,M  
AAM,QAAS,GAAE,iB;IACb,OAAO,MAAM,OAAO,CAAC,KAAl,GAAC,CAAP,C;G;EAGxB,MAAM,KAAM,  
GAAE,IAAI,KAAM,IAAG,I;EAE3B,MAAM,aAAc,GAAE,I;EAEtB,oB;IACl,OAAyB,CAAhB,CAAE,GAAE,YA  
AY,KAAG,CAAE,GAAE,KAAP,CAAE,GAAE,CAAZ,CAAE,GAAE,KAAQ,KAAG,CAAE,GAAE,CAAP,CAAW  
,GAAE,C;G;EA6DtE,CA1DD,Y;IACG,IAAI,MAAM,IAAI,WAAJ,CAAgB,CAAhB,C;IACV,IAAI,aAAa,IAAI,Y  
AAJ,CAAiB,GAAjB,C;IACjB,IAAI,aAAa,IAAI,YAAJ,CAAiB,GAAjB,C;IACjB,IAAI,WAAW,IAAI,UAAJ,CAA  
e,GAAf,C;IACf,IAAI,WAAW,C;IACf,IAAI,YAAy,C;IAEhB,UAAU,CAAC,CAAD,CAAI,GAAE,E;IACb,IAAI,  
QAAQ,CAAC,QAAD,CAAW,KAAl,CAA3B,C;MACl,QAAS,GAAE,C;MACX,SAAU,GAAE,C;KAGhB,MAAM  
,aAAc,GAAE,iB;MAClB,OAAO,MAAM,gBAAgB,CAAC,KAAl,CAAC,KAAD,CAAQ,GAAE,GAAf,GAAQ,K  
AAtB,C;K;IAGjC,MAAM,gBAAiB,GAAE,iB;MACrB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MACHb,OAAO,M  
AAM,KAAl,SAAS,CAAC,QAQ,CAAC,QAAD,CAAT,EAaQb,QAQ,CAAC,SAAD,CAA7B,C;K;IAG/B,MA  
AM,eAAgB,GAAE,iB;MACpB,QAQ,CAAC,QAAD,CAAW,GAAE,KAAl,K;MAClB,QAQ,CAAC,SAAD,C  
AAy,GAAE,KAAl,M;MAC3B,OAAO,UAAU,CAAC,CAAD,C;K;IAGrB,MAAM,YAAa,GAAE,iB;MACjB,OA  
AO,MAAM,eAAe,CAAC,KAAl,CAAC,KAAD,CAAQ,GAAE,GAAf,GAAQ,KAAtB,C;K;IAGhC,MAAM,eAAg  
B,GAAE,iB;MACpB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MACHb,OAAO,QAQ,CAAC,CAAD,C;K;IAGnB,  
MAAM,cAAe,GAAE,iB;MACnB,QAQ,CAAC,CAAD,CAAI,GAAE,K;MACd,OAAO,UAAU,CAAC,CAAD,C;  
K;IAIrB,MAAM,cAAe,GAAE,iB;MACnB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MACHb,OAAO,QAQ,CAAC,  
SAAD,CAAY,GAAE,a;K;IAGjC,MAAM,eAAgB,GAAE,e;MACpB,IAAc,CAAT,GAAl,GAAE,CAAG,MAAl,GA  
AlB,C;QACl,OAAO,GAAl,GAAE,C;;QAGb,UAAU,CAAC,CAAD,CAAI,GAAE,G;QACHb,OAAc,CAA9B,QA  
AQ,CAAC,SAAD,CAAY,GAAE,EAAG,GAAE,CAAG,IAAE,QAQ,CAAC,QAAD,CAAW,GAAE,C;;K;GAGvE  
,G;EAEF,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,IAAG,IAAl,GAAE,CAAF,GAAM,MAAM,SAAS,E;G;E  
C7G1C,IAAI,OAAO,MAAM,UAAU,WAAy,KAAl,WAA3C,C;IACl,MAAM,eAAe,CAAC,MAAM,UAAp,EA  
mB,YAAAnB,EAAiC,QAC3C,kC;MACH,QAAS,GAAE,QAAS,IAAG,C;MACvB,OAAO,IAAI,YAAy,CAAC,YA  
AD,EAAe,QAaf,CAAyB,KAAl,Q;KAHN,CAAJ,C;GAOzB,IAAI,OAAO,MAAM,UAAU,SAAU,KAAl,WAAzC  
,C;IACl,MAAM,eAAe,CAAC,MAAM,UAAp,EAAmB,UAAAnB,EAA+B,QACzC,kC;MACH,IAAI,gBAAgB,IAAI  
,SAAS,E;MACjC,IAAI,QAAS,KAAl,SAAU,IAAG,QAAS,GAAE,aAAa,OAAtD,C;QACl,QAAS,GAAE,aAAa,O;  
OAE5B,QAAS,IAAG,YAAy,O;MACxB,IAAI,YAAy,aAAa,QAQ,CAAC,YAAD,EAAe,QAaf,C;MACrC,OAA  
O,SAAU,KAAl,EAAG,IAAG,SAAU,KAAl,Q;KARG,CAA/B,C;GAazB,IAAI,OAAO,IAAI,KAAM,KAAl,WAAz  
B,C;IACl,IAAI,KAAM,GAAE,a;MACR,CAAE,GAAE,CAAC,C;MACL,IAAI,CAAE,KAAl,CAAE,IAAG,KAAl  
,CAAC,CAAD,CAApB,C;QACl,OAAO,MAAM,CAAC,CAAD,C;OAEjB,OAAO,CAAE,GAAE,CAAE,GAAE,C  
AAF,GAAM,E;K;GAG3B,IAAI,OAAO,IAAI,MAAO,KAAl,WAA1B,C;IACl,IAAI,MAAO,GAAE,a;MACT,IAAI  
,KAAl,CAAC,CAAD,CAAT,C;QACl,OAAO,G;OAEX,IAAI,CAAE,GAAE,CAAR,C;QACl,OAAO,IAAI,MAA  
M,CAAC,CAAD,C;OAErB,OAAO,IAAI,KAAl,CAAC,CAAD,C;K;GAUKtB,CAnKD,Y;IACG,IAAI,UAAU,qB;I

ACd,IAAI,iBAAiB,IAAI,KAAK,CAAC,OAD,C;IAC9B,IAAI,iBAAiB,IAAI,KAAK,CAAC,cAAD,C;IAC9B,IAAI,uBAAuB,CAAC,GAAC,c;IAC7B,IAAI,uBAAuB,CAAC,GAAC,c;IAE7B,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;UACI,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,CAAG,GAAE,C;WAE5B,OAAO,M;UAEP,IAAI,IAAI,IAAI,IAAI,CAAC,CAAD,C;UACHB,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,CAAC,QAAQ,CAAC,CAAD,CAAb,C;YAAkB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,IAAT,C;UACjC,IAAI,CAAC,QAAQ,CAAC,EAAD,CAAb,C;YAAmB,OAAO,CAAC,IAAI,IAAI,CAAC,CAAC,CAAE,GAAE,IAAI,IAAV,C;UACnC,OAAgB,CAAR,CAAE,GAAE,EAAI,IAAE,C;;O;KAI9B,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,IAAI,CAAC,CAAD,C;QACHB,IAAI,KAAK,CAAE,GAAE,C;QACb,IAAI,CAAC,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,QAAQ,CAAC,EAAD,CAA7B,C;UAAmC,OAAO,IAAI,IAAI,CAAC,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,IAAnB,C;QACID,OAAgB,CAAR,CAAE,GAAE,EAAI,IAAE,C;O;KAIIB,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;UACI,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,CAAG,GAAE,C;WAE5B,OAAO,M;UAGP,IAAI,IAAI,IAAI,IAAI,CAAC,CAAC,CAAF,CAAhB,EAAsB,IAAI,IAAI,IAAI,CAAC,CAAC,CAAF,C;UACIC,OAAO,CAAE,KAAL,QAAS,GAAE,CAAF,GAAM,CAAE,KAAL,QAAS,GAAE,EAAG,GAAE,CAAP,CAAE,GAAE,CAAG,KAAG,CAAE,GAAE,CAAP,C;;O;KAQtE,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;MACI,IAAI,QAAQ,a;QACR,IAAI,CAAE,IAAG,CAAC,cAAV,C;UAEI,IAAI,CAAE,GAAE,oBAAR,C;YAEI,IAAI,CAAE,GAAE,oBAAR,C;cAGI,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,I;:cAKzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAE,GAAG,CAAE,IAAG,CAAE,GAAE,CAAP,CAAZ,C;;YAKnB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,KAAK,CAAC,CAAE,GAAE,CAAE,GAAE,CAAT,CAAD,C;;eAGIB,IAAI,CAAE,IAAG,CAAC,cAAV,C;UAED,OAAO,CAAC,KAAK,CAAC,CAAC,CAAF,C;;UAKb,IAAIL,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,IAAG,cAAAnB,C;YAEI,IAAI,KAAK,CAAE,GAAE,CAAE,GAAE,C;YAEjB,MAAO,IAAG,EAAG,GAAE,C;WAEhB,OAAO,M;O;MAGf,IAAI,MAAO,GAAE,K;KAEjB,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,CAAE,GAAE,CAAR,C;UAEI,OAAO,G;eAEN,IAAI,CAAE,GAAE,CAAE,IAAG,cAAb,C;UAED,IAAI,CAAE,GAAE,oBAAR,C;YAGI,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,I;:YAlzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,KAAK,CAAC,CAAE,GAAE,CAAE,GAAE,CAAT,CAAd,C;;UAKnB,IAAI,IAAI,IAAI,KAAK,CAAC,CAAE,GAAE,CAAL,C;UAEjB,IAAI,SAAS,C;UACb,IAAI,CAAE,IAAG,cAAT,C;YAEI,IAAI,KAAK,CAAE,GAAE,CAAE,GAAE,C;YAEjB,MAAO,IAAG,EAAG,GAAE,E;WAGnB,OAAO,IAAI,KAAK,CAAC,CAAD,CAAI,GAAE,M;O;KAIIC,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;UACI,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,CAAG,GAAE,C;WAE5B,OAAO,M;SAEX,OAAO,IAAI,IAAI,CAAS,CAAP,CAAE,GAAE,CAAG,KAAG,CAAE,GAAE,CAAP,CAAT,CAAoB,GAAE,C;O;KAG7C,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;UACI,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,KAAK,EAAG,GAAE,C;UAEd,OAAQ,CAAC,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,C;SAEXC,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAL,C;O;KAGvB,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAIB,C;UACI,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,KAAK,EAAG,GAAE,C;UAEd,OAAQ,EAAG,GAAE,EAAG,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,C;SAEXC,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,C;O;MAG/B,G;EACF,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;IACI,IAAI,MAAO,GAAE,Y;MACT,IAAI,IAAI,C;MACR,IAAI,SAAS,SAAS,O;MAEtB,KAAK,IAAI,IAAI,CAAb,EAAGB,CAAE,GAAE,MAAPB,EAA4B,CAAC,EAA7B,C;QACI,IAAI,SAAS,CAAC,CAAD,CAAI,KAAL,QAAS,IAAG,SAAS,CAAC,CAAD,CAAI,KAAL,CAAC,QAAnD,C;UACI,OAAO,Q;SAEX,CAAE,IAAG,SAAS,CAAC,CAAD,CAAI,GAAE,SAAS,CAAC,CAAD,C;;MAEjC,OAAO,IAAI,KAAK,CAAC,CAAD,C;K;GAGxB,IAAI,OAAO,IAAI,MAAO,KAAL,WAAIB,C;IACI,IAAI,MAAO,GAAE,a;MACT,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,O;K;GAGjC,IAAI,OAAO,IAAI,KAAM,KAAL,WAAzB,C;IACI,IAAI,KAAM,GAAE,a;MACR,OAAO,IAAI,IA

AI,CAAC,CAAD,CAAI,GAAE,IAAI,M;K;GAGjC,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,MAA  
O,GAAg,oB;MACV,OAAO,a;QACH,IAAI,SAAS,CAAE,KAAI,C;QACnB,IAAI,MAAO,KAAI,CAAf,C;UACI,O  
AAO,E;SAEX,OAAO,EAAG,IAAG,GAAG,CAAC,MAAD,CAAS,GAAE,GAAI,GAAE,CAAvB,CAA0B,GAAE,  
C;O;KAE5C,CAAC,IAAI,IAAL,EAAW,IAAI,IAAf,C;GAIN,IAAI,OAAO,WAAW,OAAQ,KAAI,WAAIC,C;IACI  
,WAAW,OAAQ,GAAE,a;MACjB,OAAO,CAAE,IAAG,IAAK,IAAG,CAAC,UAAW,IAAG,IAAK,IAAG,CAAC,  
UAAU,UAAW,KAAI,SAAS,UAAU,U;K;GAIhG,IAAI,OAAO,KAAK,UAAU,KAAM,KAAI,WAApC,C;IAEI,M  
AAM,eAAe,CAAC,KAAK,UAAU,EAAb,MAA1B,EAA0B,QACpC,iB;MAGH,IAAI,IAAK,IAAG,IAAZ,C;QAC  
I,MAAM,IAAI,SAAJ,CAAc,6BAAd,C;OAGV,IAAI,IAAI,MAAM,CAAC,IAAD,C;MAGd,IAAI,MAAM,CAAC,  
OAAQ,KAAI,C;MAGvB,IAAI,QAAQ,SAAS,CAAC,CAAD,C;MACrB,IAAI,gBAAgB,KAAM,IAAG,C;MAG7B,  
IAAI,IAAI,aAAc,GAAE,CAAE,GACIB,IAAI,IAAI,CAAC,GAAI,GAAE,aAAP,EAASB,CAATB,CADU,GAEIB,I  
AAI,IAAI,CAAC,aAAD,EAAGB,GAAhB,C;MAGhB,IAAI,MAAM,SAAS,CAAC,CAAD,C;MACnB,IAAI,cAAc,  
GAAI,KAAI,SAAU,GACIB,GADkB,GACZ,GAAI,IAAG,C;MAG/B,IAAI,aAAa,WAAy,GAAE,CAAE,GACHB,I  
AAI,IAAI,CAAC,GAAI,GAAE,WAAp,EAAoB,CAApB,CADQ,GAehB,IAAI,IAAI,CAAC,WAAD,EAAC,GAAD,  
C;MAGzB,OAAO,CAAE,GAAE,UAAx,C;QACI,CAAC,CAAC,CAAD,CAAI,GAAE,K;QACP,CAAC,E;;MAIL,  
OAAO,C;KAvCgC,CAA1B,C;GA4HvB,CAhFD,Y;IACG,yC;MACI,IAAI,MAAO,GAAE,CAAb,C;QAAgB,OAA  
O,IAAI,IAAI,CAAC,CAAD,EAAL,MAAO,GAAE,MAAb,C;MAC/B,OAAO,IAAI,IAAI,CAAC,MAAD,EAAS,M  
AAT,C;K;IAEnB,qC;MACI,IAAI,OAAO,GAAI,KAAI,WAA1B,C;QACI,GAAI,GAAE,IAAI,O;OAEd,KAAM,GA  
AE,eAAe,CAAC,KAAM,IAAG,CAA V,EAaA,IAAI,OAAjB,C;MACvB,GAAI,GAAE,IAAI,IAAI,CAAC,KAAD,E  
AAQ,eAAe,CAAC,GAAD,EAAM,IAAI,OAA V,CAA vB,C;MACd,OAAO,IAAI,IAAI,YAAR,CAAqB,IAAI,SAAS  
,CAAC,KAAD,EAAQ,GAAR,CAAIC,C;K;IAGX,IAAI,SAAS,CAAC,SAAD,EAAY,UAAZ,EAawB,WAAxB,EA  
AqC,UAArC,EAAd,YAAjD,EAA+D,YAA/D,C;IACb,KAAK,IAAI,IAAI,CAAb,EAAGB,CAAE,GAAE,MAAM,  
OAA1B,EAAMC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,CAAD,C;MACvB,IAAI,OAAO,UAAU,UA  
AU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAx,EAauB,MAAvB,EAA+B,QACzC,KA  
AK,UAAU,KAD0B,CAA/B,C;OAIzB,IAAI,OAAO,UAAU,UAAU,MAAO,KAAI,WAA1C,C;QACI,MAAM,eAA  
e,CAAC,UAAU,UAAx,EAauB,OAAvB,EAAGC,QAC1C,eAD0C,CAAhC,C;;MAQJ,CAApB,Y;OAAc,MAAM,  
CAAC,IAAD,EAAO,IAAI,UAAJ,CAAe,CAAf,CAAP,E;;MAErB,IAAI,QAAQ,QAAQ,UAAU,M;MAC9B,MAA  
M,eAAe,CAAC,QAAQ,UAA T,EAAGB,OAARB,EAA8B,QACxC,uB;QACH,OAAO,KAAK,KAAK,CAAC,IAAD,  
EAAO,IAAP,EAaA,EAAE,MAAM,KAAK,CAAC,KAAD,CAA1B,C;OAF0B,CAA9B,C;;IASzB,KAAK,IAAI,IA  
AI,CAAb,EAAGB,CAAE,GAAE,MAAM,OAA1B,EAAMC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,C  
AAD,C;MACvB,IAAI,OAAO,UAAU,UAAU,IAAK,KAAI,WAAx C,C;QACI,MAAM,eAAe,CAAC,UAAU,UAA  
X,EAauB,KAAvB,EAA8B,QACxC,0B;UACH,OAAO,EAAE,MAAM,KAAK,CAAC,IAAD,CAAM,IAAI,CAAC,  
QAAD,EAAW,IAAX,C;SAFa,CAA9B,C;;IAU7B,IAAI,uBAAuB,gB;MACvB,IAAI,CAAE,GAAE,CAAR,C;QAA  
W,OAAO,E;MACIB,IAAI,CAAE,GAAE,CAAR,C;QAAW,OAAO,C;MAEIB,IAAI,CAAE,KAAI,CAAV,C;QACI,  
IAAI,CAAE,KAAI,CAAV,C;UAAa,OAAO,C;QAEpB,IAAI,KAAK,CAAE,GAAE,C;QACb,OAAO,EAAG,KAAI,  
CAAE,GAAE,CAAE,GAAE,CAAF,GAAG,EAAG,GAAE,CAAE,GAAE,EAAG,GAAG,C;OAG7C,OAAO,CAAE,  
KAAI,CAAE,GAAG,CAAE,KAAI,CAAE,GAAE,CAAF,GAAG,CAAjB,GAASB,E;K;IAGzC,KAAK,IAAI,IAAI,  
CAAb,EAAGB,CAAE,GAAE,MAAM,OAA1B,EAAMC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,CAA  
D,C;MACvB,IAAI,OAAO,UAAU,UAAU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAx,E  
AAuB,MAAvB,EAA+B,QACzC,2B;UACH,OAAO,KAAK,UAAU,KAAK,KAAK,CAAC,IAAD,EAAO,eAAgB,I  
AAG,oBAA1B,C;SAFY,CAA/B,C;;GAO/B,G;ECxXF,MAAM,KAAM,GAAE,QACH,OADG,aAEC,WAFD,UAG  
F,QAHE,C;EAMd,MAAM,WAAy,GAAE,2C;IACb,IAAI,qBAAqB,MAAM,yBAAyB,CAAC,KAAD,EAAQ,YA  
AR,C;IACxD,IAAI,kBAAmB,IAAG,IAAK,IAAG,kBAAB,IAAK,IAAG,IAA5D,C;MACI,OAAO,kBAAB,IAAI,  
KAAK,CAAC,UAAD,C;KAGtC,kBAAmB,GAAE,MAAM,yBAAyB,CAAC,UAAD,EAAa,YAAb,C;IACpD,IAAI,  
kBAAmB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,OAAO,UAAU,CAAC,YAAD,C;KAGrB,OAAO,  
MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAIC,EAA2C,YAA3C,C;G;EAG5B,MAA  
M,WAAy,GAAE,kD;IACb,IAAI,qBAAqB,MAAM,yBAAyB,CAAC,KAAD,EAAQ,YAAR,C;IACxD,IAAI,kBA  
AmB,IAAG,IAAK,IAAG,kBAAB,IAAK,IAAG,IAA5D,C;MACI,kBAAB,IAAI,KAAK,CAAC,UAAD,EAAa,K  
AAb,C;MAC3B,M;KAGJ,kBAAmB,GAAE,MAAM,yBAAyB,CAAC,UAAD,EAAa,YAAb,C;IACpD,IAAI,kBAA

mB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,UAAU,CAAC,YAAD,CAAe,GAAE,K;MAC3B,M;KA  
GJ,MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAC,EAA2C,YAA3C,EAAYD,KAAZD  
,C;G;EAGrB,iD;IACI,IAAI,IAAK,KAAl,KAAb,C;MAAoB,OAAO,I;IAE3B,IAAI,WAAW,IAAI,W;IACnB,IAAI,  
QAAS,IAAG,IAAhB,C;MACI,IAAI,aAAa,QAAQ,W;MACzB,KAAK,IAAI,IAAI,CAAb,EAAGB,CAAE,GAAE,U  
AAU,OAA9B,EAauC,CAAC,EAAxC,C;QACI,IAAI,0BAA0B,CAAC,UAAU,CAAC,CAAD,CAAX,EAAGB,KA  
AhB,CAA9B,C;UACI,OAAO,I;KAKnB,IAAI,iBAaiB,IAAI,UAAW,IAAG,IAAK,GAAE,MAAM,eAAe,CAAC,I  
AAI,UAAAL,CAAvB,GAA0C,I;IACtF,IAAI,mBAAmB,cAAe,IAAG,IAAK,GAAE,cAAc,YAAhB,GAA+B,I;IAC7  
E,OAAO,gBAaiB,IAAG,IAAK,IAAG,0BAA0B,CAAC,gBAAD,EAAMB,KAAAnB,C;G;EASjE,MAAM,OAAQ,G  
AAE,yB;IACZ,IAAI,KAAM,KAAl,MAAd,C;MACI,QAAQ,OAAO,MAAf,C;aACS,Q;aACA,S;aACA,U;  
UACD,OAAO,I;gBAEP,OAAO,MAAO,YAAW,M;;KAIrC,IAAI,MAAO,IAAG,IAAK,IAAG,KAAM,IAAG,IAA  
K,KAAl,OAAO,MAAO,KAAl,QAAS,IAAG,OAAO,MAAO,KAAl,UAApD,CAApC,C;MACI,OAAO,K;KAGX,I  
AAI,OAAO,KAAM,KAAl,UAAW,IAAG,MAAO,YAAW,KAArD,C;MACI,OAAO,I;KAGX,IAAI,QAAQ,MAA  
M,eAAe,CAAC,KAAD,C;IACjC,IAAI,cAAc,KAAM,IAAG,IAAK,GAAE,KAAK,YAAP,GAASB,I;IACtD,IAAI,  
WAAAY,IAAG,IAAK,IAAG,YAAa,IAAG,WAA3C,C;MACI,IAAI,WAAW,WAAW,W;MAC1B,IAAI,QAAQ,KA  
AM,KAAl,MAAM,KAAK,OAAjC,C;QACI,OAAO,MAAO,KAAl,K;QAI1B,IAAI,gBAAGB,KAAK,W;IAGzB,IA  
AI,aAAc,IAAG,IAArB,C;MACI,OAAO,MAAO,YAAW,K;KAG7B,IAAI,aAAa,KAAM,KAAl,MAAM,KAAK,U  
AAW,IAAG,MAAM,YAAa,IAAG,IAA1E,C;MACI,OAAO,0BAA0B,CAAC,MAAM,YAAP,EAaqB,KAArB,C;K  
AGrC,OAAO,K;G;EAGX,MAAM,SAAU,GAAE,a;IACd,OAAO,OAAO,CAAE,IAAG,QAAS,IAAG,CAAE,YAA  
W,MAAM,K;G;EAGtD,MAAM,OAAQ,GAAE,iB;IACZ,OAAO,KAAM,YAAW,MAAM,U;G;EAGiC,MAAM,aA  
Ac,GAAE,iB;IACIB,IAAI,OAAO,OAAO,K;IAEIB,OAAO,IAAK,KAAl,QAAS,IACIB,IAAK,KAAl,SAAU,IACn  
B,MAAM,SAAS,CAAC,KAAD,CAAQ,IACvB,MAAM,OAAO,CAAC,KAAD,EAQ,MAAM,OAAO,WAArB,C;  
G;EAGxB,MAAM,eAAgB,GAAE,iB;IACpB,OAAO,OAAO,KAAM,KAAl,QAAS,IAAG,MAAM,OAAO,CAAC,  
KAAD,EAQ,MAAM,OAAO,aArB,C;G;,,,,,;aCnDV,gB;,,,;ICrE3C,gB;MAkBI,4B;MAjBA,aAA6C,E;MAC7C,  
gBAAGD,C;K;4EAG5C,Y;MAAQ,iB;K;+EAGR,Y;MAAQ,oB;K;qCAEZ,iB;MAAYC,OAAQ,0BAAR,YAAQ,EA  
AU,KAAM,QAAhB,C;K;4BAEjD,iB;MAAmC,gBAAS,K;K;8BAE5C,Y;MAA+B,OAAnc,MAAmC,kBAA8B,IA  
A9B,C;K;8BAE/B,Y;MAA0B,gB;K;IAE1B,0B;MAAA,8B;K;;IAAA,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;IDf  
J,mC;MAC4C,oBAAa,MAAS,IAAT,CAAb,EAA6B,SAAT7B,C;K;gEAE5C,yB;MAAA,mB;MAAA,6B;QAC2D,Y  
AAa,QAAS,IAAT,C;QAIvD,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MA  
AM,CAAN,IALgF,IAKrE,CAAK,CAAL,C;;QALwC,OAOhD,K;O;KARX,C;gEAGA,uB;MAEiB,Q;MAAA,OAA  
A,KAAM,OAAN,GAAa,CAAb,I;MAAb,aAAU,CAAV,iB;QACI,MAAM,CAAN,IAAW,KAAK,CAAL,C;;MAEf,  
OAAO,K;K;IAGX,kC;MAIiB,IAAN,I;MAFP,aAAsB,MAAe,IAAf,C;MACTb,gBAAkB,c;MAEd,IADS,IACT,mB  
ADS,IACT,EAAM,IAAN,E;QAAC,oBAAa,MAAb,EAaqB,KAArB,C;WACd,WAFS,IAET,S;QAAS,a;;QAZA,U;  
QAAA,SAaqB,MAbf,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;UAakC,MAZ9B,CAAM,CAAN,IAYS,C,IA  
Z3B,CAAK,CAAL,C;;QAYH,OAAAsB,M;;MAHIC,W;K;2EAOJ,yB;MAAA,iC;MAAA,6B;QACoF,YAAa,aAAa,I  
AAb,EAAMB,KAAAnB,C;QAIbhF,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI  
,MAAM,CAAN,IAiBoH,IAjBzG,CAAK,CAAL,C;;QAIbIE,OafzE,K;O;KAcX,C;IAGA,+B;MAKiB,IAAN,I;MAF  
P,aAAa,IAAb,WAAa,CAAD,IAAC,C;MACb,gBAAkB,W;MAEd,IADS,IACT,mBADS,IACT,EAAM,IAAN,YAD  
S,IACT,EAAY,KAAZ,E;QAAqB,a;;QAI1BZ,U;QAAA,SA2BkB,MA3BZ,OAAN,GAAa,CAAb,I;QAAb,aAAU,CA  
AV,mB;UA2B+B,MA1B3B,CAAM,CAAN,IA0BmC,IA1BxB,CAAK,CAAL,C;;QA0BH,OAAMB,M;;MAF/B,W;  
K;qEAMJ,yB;MAAA,2B;MAAA,gC;MAAA,6B;QAGiB,Q;QADb,YAAY,UAAU,IAAV,EAAGB,IAAhB,C;QACC  
,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,YACY,eAAK,CAAL,E;UACpB,KAAK,CA  
AC,CAAD,CAAG,GAAG,K;;QAEP,OAAO,K;O;KARX,C;mFAWA,yB;MAAA,mB;MAAA,gC;MAAA,6B;QAGi  
B,Q;QADb,YAAY,QAAY,IAAZ,C;QACC,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,  
YACY,eAAK,CAAL,E;UACpB,KAAK,CAAC,CAAD,CAAG,GAAG,K;;QAEP,OAAO,K;O;KARX,C;IAWA,+B;  
MAIiB,IAAN,I;MAFP,aAAsB,MAAY,IAAZ,C;MACTb,gBAAkB,W;MAEd,IADS,IACT,mBADS,IACT,EAAM,I  
AAN,E;QAAC,oBAAa,MAAb,K;WACd,WAFS,IAET,S;QAAS,a;;QA3DA,U;QAAA,SA4DkB,MA5DZ,OAAN,G  
AAa,CAAb,I;QAAb,aAAU,CAAV,mB;UA4D+B,MA3D3B,CAAM,CAAN,IA2DmC,IA3DxB,CAAK,CAAL,C;;Q  
A2DH,OAAMB,M;;MAH/B,W;K;qEAOJ,yB;MAAA,2B;MAAA,6B;QAC2E,YAAa,UAAU,IAAV,EAAGB,KAAh

B,C;QAjEvE,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MAAM,CAAN,IAg  
EwG,IAhE7F,CAAK,CAAL,C;;QAgEwD,OA9DhE,K;O;KA6DX,C;IAGA,wC;MACiB,Q;MAAA,OAAA,KAAM,  
OAAN,GAAa,CAAb,I;MAAb,aAAU,CAAV,iB;QACI,MAAM,CAAN,IAAW,S;;MAEf,OAAO,K;K;IEIFX,iC;MA  
AA,qC;MAEI,iBAC8B,Q;MAE9B,iBAC8B,sB;MAE9B,yBAEsC,MAAM,G;MAE5C,yBAEsC,CAAC,GAAD,GA  
AO,G;MAE7C,WAEwB,EAAE,MAAM,GAAR,C;MAExB,kBACuB,C;MAEvB,iBACsB,E;K;;IAxB1B,6C;MAA  
A,4C;QAAA,2B;OAAA,qC;K;IA2BA,gC;MAAA,oC;MAEI,iBAC6B,O;MAE7B,iBAC6B,Y;MAE7B,yBAEqC,M  
AAO,G;MAE5C,yBAEqC,CAAC,GAAD,GAAQ,G;MAE7C,WAEuB,EAAE,MAAO,GAAT,C;MAEvB,kBACuB,  
C;MAEvB,iBACsB,E;K;;IAxB1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IA2BA,8B;MAAA,kC;MAEI,iBACqB,  
W;MAErB,iBACqB,U;MAErB,kBACuB,C;MAEvB,iBACsB,E;K;;IAZ1B,0C;MAAA,yC;QAAA,wB;OAAA,kC;  
K;IAeA,+B;MAAA,mC;MAEI,iBACJ,MAAM,KAAoB,U;MAEtB,iBACJ,MAAM,KAAoB,U;MAEtB,kBACuB,C;  
MAEvB,iBACsB,E;K;;IAZ1B,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAeA,gC;MAAA,oC;MAEI,iBACuB,U;M  
AEvB,iBACuB,K;MAEvB,kBACuB,C;MAEvB,iBACsB,E;K;;IAZ1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAe  
A,+B;MAAA,mC;MAEI,iBACsB,Q;MAEtB,iBACsB,G;MAEtB,kBACuB,C;MAEvB,iBACsB,C;K;;IAZ1B,2C;M  
AAA,0C;QAAA,yB;OAAA,mC;K;IAeA,+B;MAAA,mC;MAEI,iBACmC,C;MAEnC,iBACmC,K;MAEnC,0BAC4  
C,K;MAE5C,0BAC4C,K;MAE5C,yBAC2C,K;MAE3C,yBAC2C,K;MAE3C,qBACuC,uB;MAEvC,qBACuC,sB;M  
AEvC,kBACuB,C;MAEvB,iBACsB,E;K;;IA9B1B,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAiCA,iC;MAAA,qC;  
K;;IAAA,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IAEA,kC;MAAA,sC;K;;IAAA,8C;MAAA,6C;QAAA,4B;OAA  
A,sC;K;;aCkkuBoB,gB;;cC/ntB0C,mB;;gBAyEvC,yB;eAAyB,wB;;uBAgBzB,gC;sBAA  
wB,+B;mCA4JjC,qB;mCA5ImC,qB;;kBAQ1B,2B;iBAA0B,0B;;eC3YgB,wB;sBCoBA,sB;iBCnBA,0B;;aC5P8  
B,e;;gCCIDhD,yC;+BCVA,uC;+BCAA,sC;;gCCyJ/B,+B;+BAIW,sC;gCCqwCc,+B;0BAHvB,kC;uBAr6B  
O,gC;yBA8WD,iC;0BACA,mC;yBA4JA,iC;gCAmZP,oC;+BAbc,oC;+BAEC,+B;yBAEQ,kC;;gBCr0C6C,yB;;;  
;;  
;;IC/ErF,kD;MAMuF,wC;K;IANvF,4CAOI,Y;MAAuC,8B;K;IAP3C,8E;ICGA,k  
D;MAQuF,wC;K;IARvF,4CASI,Y;MAAuC,8B;K;IAT3C,8E;0FbOA,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,  
qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAA  
I,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB  
;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,C  
AAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;M  
AQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CA  
AJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MA  
QI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,  
C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,  
OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;  
K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,O  
AAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;  
4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OA  
AO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4  
FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAA  
O,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4F  
AGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,  
UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAG  
X,qB;MAQI,OAAO,UAAI,CAAJ,C;K;IAGX,sC;MAII,OAAO,mBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OA  
AO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,  
qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAOI,OAAO,qB  
AAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAOI,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAA  
AQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;oGAKe/B,yB;MAAA,8D;MAAA,  
iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAc,UAAI,KAAJ,CAATc,GAAcD,aAAa,KAAb,C;O;K  
APjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAc,UAAI,K



AE5B,oBAAO,I;;;QA12CP,wB;O;KAPJ,C;wFAUA,yB;MA02CA,0D;MAAA,+C;MA12CA,uC;QAOW,qB;;UAY2  
CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;Y  
ACd,IA32Cc,SA22CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA72CP,wB;O;  
KAPJ,C;wFAUA,yB;MA62CA,0D;MAAA,+C;MA72CA,uC;QAOW,qB;;UA42CO,Q;UAAA,OAAa,SAAR,sBAA  
Q,CAAb,W;UAAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA92Cc,SA82CV,CAAU,OA  
AV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAh3CP,wB;O;KAPJ,C;wFAUA,yB;MAg3CA,0  
D;MAAA,+C;MAAA,oC;MAh3CA,uC;QAOW,qB;;UA+2CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAAd,O  
AAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAj3Cc,SAi3CV,CAAU,oBAAV,CAAJ,C;cAAwB,  
oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAn3CP,wB;O;KAPJ,C;IAUA,0B;MAKI,IA4uNO,qBAAQ,CA5uNf,C;  
QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IA0uNO,qBAAQ,CA1u  
Nf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IAwuNO,qBAAQ,  
CAxuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IASuNO,qBA  
AQ,CAtuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IAouNO,  
qBAAQ,CApuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IAku  
NO,qBAAQ,CAluNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,I  
AguNO,qBAAQ,CAhuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;M  
AKI,IA8tNO,qBAAQ,CA9tNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;IAGX,4  
B;MAKI,IA4tNO,qBAAQ,CA5tNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,CAAL,C;K;kFA  
GX,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,  
UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;kFASA,yB;MAA  
A,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAA  
V,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA  
,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;Y  
AAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,  
Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAA  
O,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,w  
BAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD  
,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SA  
AhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gC  
AAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UA  
AgB,cAAA,SAAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDA  
AvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,S  
AAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDA  
AvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,S  
AAhB,M;UAAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDA  
AvB,C;O;KANV,C;kGASA,yB;MAAA,iE;MAAA,uC;QASW,Q;QAAA,+B;;UAYS,U;UAAhB,uD;YAAg  
B,cAAhB,iB;YACI,aAbwB,SAaX,CAAU,OAAV,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BA  
AO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,8DAAvB,C;SAAhD,OAAO,I;O;KATX,C;8GAYA,gC;M  
ASoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,aAAa,UAAU,OAAV,C;QACb,IAAI,cA  
AJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,gC;MAII,OAoiNO,qBAAQ,CApiNR,GAAe,IAAf,GAAYB,UAA  
K,CAAL,C;K;IAGpC,kC;MAII,OAqiNO,qBAAQ,CAriNR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,kC;M  
AII,OAsiNO,qBAAQ,CAtiNR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAuiNO,qBAAQ,Cavi  
NR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAwiNO,qBAAQ,CAXiNR,GAAe,IAAf,GAAYB,U  
AAK,CAAL,C;K;IAGpC,kC;MAII,OAYiNO,qBAAQ,CAziNR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,k  
C;MAII,OA0iNO,qBAAQ,CA1iNR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OA2iNO,qBAAQ,  
CA3iNR,GAAe,IAAf,GAAYB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OA4iNO,qBAAQ,CA5iNR,GAAe,IAAf,GAA  
yB,UAAK,CAAL,C;K;8FAGpC,gC;MAIoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAAsB,  
IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;8FAGX,gC;MAIoB,Q;MAAhB,wBAAGB,S





AGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;gGA  
GX,yB;MAAA,oC;MAAA,uC;QAI,II,wD;UACI,IAAI,UAAU,sBAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QA  
Gf,OAAO,E;O;KATX,C;4FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,  
CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;  
QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBA  
AQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO  
,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,s  
BAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OA  
AO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAA  
R,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,  
OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,S  
AAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YA  
CI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAA  
Q,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;  
YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,O  
AAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAA  
J,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAA  
A,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,  
CAAJ,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,oC;MAAA,uC;  
QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,sBAAK  
,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;IA YA,yB;MAQI,IAg7LO,qBAAQ,CAh7Lf,  
C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,wBAAL,C;K;IAGX,2B;MAQI,IA26LO,qBAAQ,CA  
36Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IA56LO,qBAA  
Q,CA6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAi6LO,q  
BAAQ,CAj6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IA45  
LO,qBAAQ,CA55Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,  
IAu5LO,qBAAQ,CAv5Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;M  
AQI,IAk5LO,qBAAQ,CA15Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2  
B;MAQI,IA64LO,qBAAQ,CA74Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IA  
GX,2B;MAQI,IAw4LO,qBAAQ,CAx4Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C  
;K;gFAGX,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAA  
Q,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;  
YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;gFAeA,yB;MAAA,0D;MAAA,+C;MAAA  
,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;  
UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAu  
B,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SA  
AR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,  
UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAA  
A,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,  
OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;  
;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QA  
QkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAA  
K,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;K  
AZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,C  
AAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAA  
J,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MA  
AA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,  
uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCA

AuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa, SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IA AI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MA AA,0D;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAA b,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAA wB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;IAeA,yC;MAKsB,UAMA,M;MAPIB,IAAI,eA AJ,C;QACkB,OAAQ,WAAR,sBAAQ,CAAR,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,IAAI,UAAK,KAAL,SA AJ,C;YACI,OAAO,K;;;QAID,SAAQ,WAAR,sBAAQ,CAAR,W;QAAd,OAAC,gBAAd,C;UAAc,2B;UACV,IAAI,g BAAW,UAAK,OAAL,CAAX,CAAJ,C;YACI,OAAO,O;;;MAInB,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAF,C;UACI, OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAA d,C;QAAC,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAF,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIk B,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,YAAW,UAAK,KA AL,CAAF,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR, W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,gBAAW,UAAK,KAAL,CAAX,CAAJ,C;UACI,OAAO,K;;MAG f,OAAO,E;K;IAGX,2C;MAMkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB; QACV,IAAI,YAAW,UAAK,KAAL,CAAF,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAMkB,Q;MAAA,O AAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAF,C; UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAF,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C; MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAC,cAAAd,C;QAAC,uB;QACV,IAAI,YAAW,UA AK,KAAL,CAAF,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,+B;MAMI,OA8jLO,qBAAQ,CA9jLR,GAAe,IAA f,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA6jLO,qBAAQ,CA7jLR,GAAe,IAAf,GAAyB,U AAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA4jLO,qBAAQ,CA5jLR,GAAe,IAAf,GAAyB,UAAK,mBA AO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA2jLO,qBAAQ,CA3jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP, IAAL,C;K;IAGpC,iC;MAMI,OA0jLO,qBAAQ,CA1jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K; IAGpC,iC;MAMI,OAyjLO,qBAAQ,CAzjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC; MAMI,OAwjLO,qBAAQ,CAxjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA ujLO,qBAAQ,CAvjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAsjLO,qBAA Q,CAtjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;4FAGpC,yB;MAAA,0D;MAAA,+C;MAAA,u C;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAA c,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAVX,C;6FAaA, yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OA AC,cAAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;Q AEEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YA AL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU, OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC; QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,U AAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAVX,C;6FAaA,yB; MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAE



AK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHIB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QA  
AM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBAC  
Q,MAAM,gCAAyB,kCAAzB,C;;MAHIB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UA  
AK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAz  
B,C;;MAHIB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAv  
B,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHIB,W;K;oFAOJ,yB;  
MAAA,kF;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QA  
CZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cA  
AW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MA  
AM,gCAAuB,mDAAvB,C;QAEIB,OAAO,6E;O;KafX,C;oFakBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,u  
C;QAMoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;  
UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;  
YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2D;O;Kaf  
X,C;qFakBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAqB,I;QACrB,YAA  
Y,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KA  
AJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UA  
AY,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2D;O;KafX,C;qFakBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;  
MAAA,uC;QAMoB,UAST,M;QAXP,aAAmB,I;QACnB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,S  
AAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,  
SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2  
D;O;KafX,C;qFakBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAoB,I;QAC  
pB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,I  
AAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAA  
L,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,iE;O;KafX,C;qFakBA,yB;MAAA,kF;MAAA,iE;MA  
AA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,c  
AAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;  
YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,  
OAAO,2D;O;KafX,C;qFakBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAA  
sB,I;QACtB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,  
C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CA  
AC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2D;O;KafX,C;qFakBA,yB;MAAA,kF;MAA  
A,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAuB,I;QACvB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;U  
AAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDA  
AzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;Q  
AEIB,OAAO,4D;O;KafX,C;qFakBA,yB;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;MAAA,uC;QA  
MoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB  
,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAA  
S,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,4E;O;  
KafX,C;IakBA,iC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OA  
AW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,U  
AAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;  
K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,q  
BAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,  
CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IA  
GvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;gGAGvC,gC;MAMoB,Q;MAFh  
B,aAAiB,I;MACjB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV  
,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,  
C;QAAy,OAAO,I;MACnB,OAAO,M;K;gGAGX,gC;MAMoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACZ,wB

AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAqB,I;MACrB,YAAy,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAmB,I;MACnB,YAAy,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAoB,I;MACpB,YAAy,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAqB,I;MACrB,YAAy,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAaB,I;MACtB,YAAy,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,OAAO,I;MACnB,OAAO,M;K;iGAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAFhB,aAAoB,I;QACpB,YAAy,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,OAAO,I;YACIB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,OAAO,I;QACnB,OAAO,M;O;KAdX,C;IAiBA,4B;McvqGI,IAAI,Ed+qGI,KAAK,Cc/qGT,CAAJ,C;QACI,cd8qGc,sD;Qc7qGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8qGV,OAAO,oBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;McnrGI,IAAI,Ed2rGI,KAAK,Cc3rGT,CAAJ,C;QACI,cd0rGc,sD;QczrGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0rGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;Mc/rGI,IAAI,EdusGI,KAAK,CcvsGT,CAAJ,C;QACI,cdssGc,sD;QcrsGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdssGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;Mc3sGI,IAAI,EdmtGI,KAAK,CcntGT,CAAJ,C;QACI,cdktGc,sD;QcjtGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdktGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;McvtGI,IAAI,Ed+tGI,KAAK,Cc/tGT,CAAJ,C;QACI,cd8tGc,sD;Qc7tGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8tGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;McnuGI,IAAI,Ed2uGI,KAAK,Cc3uGT,CAAJ,C;QACI,cd0uGc,sD;QczuGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0uGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;Mc/uGI,IAAI,EduvGI,KAAK,CcuvGT,CAAJ,C;QACI,cdsvGc,sD;QcrvGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdsvGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;Mc3vGI,IAAI,EdmwGI,KAAK,CcnwGT,CAAJ,C;QACI,cdkwGc,sD;QcjrGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdkwGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,8B;McvwGI,IAAI,Ed+wGI,KAAK,Cc/wGT,CAAJ,C;QACI,cd8wGc,sD;Qc7wGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8wGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAApB,C;K;IAGX,gC;McnxGI,IAAI,Ed2xGI,KAAK,Cc3xGT,CAAJ,C;QACI,cd0xGc,sD;QczxGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0xGV,OAAO,gBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;Mc/xGI,IAAI,EduyGI,KAAK,CcuyGT,CAAJ,C;QACI,cdsyGc,sD;QcryGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdsyGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;Mc3yGI,IAAI,EdmzGI,KAAK,CcnzGT,CAAJ,C;QACI,cdkzGc,sD;QcjrGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdkzGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;McvzGI,IAAI,Ed+zGI,KAAK,Cc/zGT,CAAJ,C;QACI,cd8zGc,sD;Qc7zGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8zGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;Mcn0GI,IAAI,Ed20GI,KAAK,Cc30GT,CAAJ,C;QACI,cd00Gc,sD;Qcz0Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od00GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;Mc/0GI,IAAI,EdulGI,KAAK,CcvlGT,CAAJ,C;QACI,cds1Gc,sD;Qcr1Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Ods1GV,OAAO,kBAAgB,gBAAV,mBAAO,

CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;IAGX,kC;Mc31GI,IAAI,Edm2GI,KAAK,Ccn2GT,CAAJ,C;QACI,cdk2G  
c,sD;Qcj2Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odk2GV,OAAO,kBAAGb,gBAAV,mBAAO,CAAP,IAAU,EA  
Ac,CAAd,CAAhB,C;K;IAGX,kC;Mcv2GI,IAAI,Ed+2GI,KAAK,Cc/2GT,CAAJ,C;QACI,cd82Gc,sD;Qc72Gd,MA  
AM,gCAAyB,OAAQ,WAAjC,C;Od82GV,OAAO,kBAAGb,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB  
,C;K;IAGX,kC;Mcn3GI,IAAI,Ed23GI,KAAK,Cc33GT,CAAJ,C;QACI,cd03Gc,sD;Qcz3Gd,MAAM,gCAAyB,OA  
AQ,WAAjC,C;Od03GV,OAAO,kBAAGb,gBAAV,mBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;gGAGX,yB;  
MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA  
AU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;  
kGAcA,yB;MAAA,8D;MAAA,2C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,  
CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O  
;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;U  
ACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,O  
AAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,C  
AA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,  
C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd  
,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CA  
AR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBA  
Ac,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK  
,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;  
QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OA  
AO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;  
MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C  
;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,oC;  
MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,  
KAAL,EA AV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;wFAcA,yB;  
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA  
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,  
WAAI,IAAJ,C;YACL,WAAW,I;;QAE nB,OAAO,I;O;KafX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA  
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA  
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QA  
EnB,OAAO,I;O;KafX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX  
,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,  
UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAE nB,OAAO,I;O;KafX,C;0FAkBA,yB;  
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA  
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,  
WAAI,IAAJ,C;YACL,WAAW,I;;QAE nB,OAAO,I;O;KafX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA  
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA  
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QA  
EnB,OAAO,I;O;KafX,C;0FAkBA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;Q  
ACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,IAAI,QAAJ,C;YACI,IAAK,WA

AI,iBAAJ,C;eACJ,IAAI,CAAC,UAAU,iBAAV,CAAL,C;YACD,IAAK,WAAI,iBAAJ,C;YA CL,WAAW,I;;QAE n B,OAAO,I;O;KafX,C;kFakBA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAmgBA,Q;QA AhB,iD;UAAgB, cAAhB,e;UAA sB,IAngBU,SAmgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAngB1D,OAog BO,W;O;KA1gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAogBA,Q;QA AhB,iD;UAAgB,cA AhB,e;UAA sB,IApgBa,SAogBT,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAp gB1D,OAqgBO, W;O;KA3gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAqgBA,Q;QA AhB,iD;UAAgB,cAAhB ,e;UAA sB,IArgBc,SAqgBV,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QArgB1D,OAsgBO,W;O; KA5gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAsgBA,Q;QA AhB,iD;UAAgB,cAAhB,e;UA AsB,IAtgBY,SAsgBR,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAtgB1D,OAugBO,W;O;KA7g BX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAugBA,Q;QA AhB,iD;UAAgB,cAAhB,e;UAA sB,IAvgBa,SAvgBT,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAv gB1D,OAwgBO,W;O;KA9gBX, C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAwgBA,Q;QA AhB,iD;UAAgB,cAAhB,e;UAA sB,IAx gBc,SAwgBV,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAxgB1D,OAygBO,W;O;KA/gBX,C;o FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAygBA,Q;QA AhB,iD;UAAgB,cAAhB,e;UAA sB,IAz gBe,SAygBX,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QAzgB1D,OA0gBO,W;O;KAhhBX,C;oFAS A,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QA0gBA,Q;QA AhB,iD;UAAgB,cAAhB,e;UAA sB,IA1gBgB,SA0gBZ,CAAU,OAAV,CAAJ,C;YAAwB,WAA Y,WAAI,OAAJ,C;;QA1gB1D,OA2gBO,W;O;KAjhBX,C;oFASA, yB;MAAA,+D;MA2gBA,oC;MAAA,gC;MA3gBA,uC;QAMW,kBAAS,gB;QA2gBA,Q;QA AhB,iD;UAAgB,cAAh B,0B;UAA sB,IA3gBa,SA2gBT,CAAU,oBAAV,CAAJ,C;YAAwB,WAA Y,WAAI,oBAAJ,C;;QA3gB1D,OA4gBO, W;O;KAlhBX,C;gGASA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAsgTV,gB;QADb,YAAY,C;QACZ,iD ;UAAa,WAAb,e;UA16SI,IApGmC,SAoG/B,EAk6SkB,cA16SIB,EAk6SkB,sBA16SIB,Wak6S2B,IA16S3B,CAAJ,C; YAA2C,sBAk6SZ,IA16SY,C;;QApG/C,OAsGO,W;O;KA9GX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBA AgB,gB;QAqgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA95SI,IAvGsC,SAuGIC,EA85SkB,cA95SIB,E A85SkB,sBA95SIB,WA85S2B,IA95S3B,CAAJ,C;YAA2C,sBA85SZ,IA95SY,C;;QAvG/C,OAYGO,W;O;KAjHX, C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAogTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAA b,e;UA15SI,IA1GuC,SA0GnC,EA05SkB,cA15SIB,EA05SkB,sBA15SIB,WA05S2B,IA15S3B,CAAJ,C;YAA2C,sB A05SZ,IA15SY,C;;QA1G/C,OA4GO,W;O;KApHX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;Q AmgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA5SI,IA7GqC,SA6GjC,EAs5SkB,cAt5SIB,EAs5SkB,s BA5SIB,WAs5S2B,IA5S3B,CAAJ,C;YAA2C,sBA5SZ,IA5SY,C;;QA7G/C,OA+GO,W;O;KA vHX,C;kGAWA, yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAkgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA15SI, IAhHsC,SAgHIC,EAk5SkB,cA15SIB,EAk5SkB,sBA15SIB,Wak5S2B,IA15S3B,CAAJ,C;YAA2C,sBAk5SZ,IA15S Y,C;;QA hH/C,OAKHO,W;O;KA1HX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAigTV,gB;Q ADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA94SI,IA nHuC,SAmHnC,EA84SkB,cA94SIB,EA84SkB,sBA94SIB,W A84S2B,IA94S3B,CAAJ,C;YAA2C,sBA84SZ,IA94SY,C;;QAnH/C,OAqHO,W;O;KA7HX,C;kGAWA,yB;MAAA ,+D;MAAA,uC;QAQW,kBAAgB,gB;QAggTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA14SI,IA tHwC,S AsHpC,EA04SkB,cA14SIB,EA04SkB,sBA14SIB,WA04S2B,IA14S3B,CAAJ,C;YAA2C,sBA04SZ,IA14SY,C;;QA tH/C,OA wHO,W;O;KAhIX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QA+/SV,gB;QADb,YAA Y,C;QACZ,iD;UAAa,WAAb,e;UA4SI,IAzHyC,SAyHrC,EAs4SkB,cAt4SIB,EAs4SkB,sBA4SIB,WAs4S2B,IA4 S3B,CAAJ,C;YAA2C,sBA4SZ,IA4SY,C;;QazH/C,OA2HO,W;O;KANIX,C;kGAWA,yB;MAAA,+D;MA2HA,g C;MAo4SA,oC;MA//SA,uC;QAQW,kBAAgB,gB;QA8/SV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UAA mB,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA14S/B,IA5HsC,SA4HIC,CAAU,OAAV,EAAiB,OAAjB, CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QA5H/C,OA8HO,W;O;KAtIX,C;oGAWA,6C;MA26SiB,gB;MADb,YAAY,C; MACZ,iD;QAAa,WAAb,e;QA16SI,IAAI,Wak6SkB,cA16SIB,EAk6SkB,sBA16SIB,Wak6S2B,IA16S3B,CAAJ,C;U AA2C,sBAk6SZ,IA16SY,C;;MAE/C,OAAO,W;K;qGAGX,6C;MAu6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,W AA b,e;QA95SI,IAAI,WA85SkB,cA95SIB,EA85SkB,sBA95SIB,WA85S2B,IA95S3B,CAAJ,C;UAA2C,sBA85SZ,I A95SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAm6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA15SI,I AAI,WA05SkB,cA15SIB,EA05SkB,sBA15SIB,WA05S2B,IA15S3B,CAAJ,C;UAA2C,sBA05SZ,IA15SY,C;;MAE /C,OAAO,W;K;qGAGX,6C;MA+5SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA15SI,IAAI,WAs5SkB,c

At5SIB,EAs5SkB,sBA15SIB,WAs5S2B,IA15S3B,CAAJ,C;UAA2C,sBA5S5SZ,IA15SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MA25SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA15SI,IAAI,Wak5SkB,cAl5SIB,Eak5SkB,sBA15SIB,Wak5S2B,IA15S3B,CAAJ,C;UAA2C,sBAk5SZ,IA15SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAu5SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA94SI,IAAI,WA84SkB,cA94SIB,EA84SkB,sBA94SIB,WA84S2B,IA94S3B,CAAJ,C;UAA2C,sBA84SZ,IA94SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAm5SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA14SI,IAAI,WA04SkB,cA14SIB,EA04SkB,sBA14SIB,WA04S2B,IA14S3B,CAAJ,C;UAA2C,sBA04SZ,IA14SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MA+4SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAt4SI,IAAI,WAs4SkB,cAt4SIB,EAs4SkB,sBA14SIB,WAs4S2B,IA14S3B,CAAJ,C;UAA2C,sBA4SZ,IA14SY,C;;MAE/C,OAAO,W;K;sGAGX,yB;MAAA,gC;MAo4SA,oC;MAp4SA,oD;QA24SiB,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UAAmB,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA14S/B,IAAI,UAAU,OAAV,EAAiB,OAAjB,CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QAE/C,OAAO,W;O;KAXX,C;sGAcA,yB;MAAA,+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,YAAJ,C;YAAkB,WAAAY,WAAI,OAAJ,C;;QATpD,OAUO,W;O;KAhBX,C;OGASA,4C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,YAAJ,C;UAAkB,WAAAY,WAAI,OAAJ,C;;MACpD,OAAO,W;K;wFAGX,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAoGH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAPGS,SAoGR,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QApG3D,OAqGO,W;O;KA3GX,C;0FASA,yB;MAAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAqGH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CARGY,SAqGX,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QArG3D,OAsGO,W;O;KA5GX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAsGH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CATGa,SAsGZ,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QAtG3D,OAuGO,W;O;KA7GX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAUgh,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAvGW,SAuGV,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QAvG3D,OAwGO,W;O;KA9GX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAwGH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAxGY,SAwGX,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QAxG3D,OAYGO,W;O;KA/GX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAYGH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAzGa,SAyGZ,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QAzG3D,OA0GO,W;O;KAhHX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QA0GH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA1Gc,SA0Gb,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QA1G3D,OA2GO,W;O;KAjHX,C;0FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QA2GH,Q;QAaHb,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA3Ge,SA2Gd,CAAU,OAAV,CAAL,C;YAAyB,WAAAY,WAAI,OAAJ,C;;QA3G3D,OA4GO,W;O;KAiHX,C;0FASA,yB;MAAA,+D;MA4GA,oC;MAAA,gC;MA5GA,uC;QAMW,kBAAY,gB;QA4GH,Q;QAaHb,iD;UAAgB,cAAhB,0B;UAAsB,IAAI,CA5GY,SA4GX,CAAU,oBAAV,CAAL,C;YAAyB,WAAAY,WAAI,oBAAJ,C;;QA5G3D,OA6GO,W;O;KANHX,C;IASA,kC;MAMI,OAAO,2BAAgB,gBAAhB,C;K;IAGX,iD;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,eAAJ,C;UAAqB,WAAAY,WAAI,OAAJ,C;;MACvD,OAAO,W;K;4FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAMoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,CAAC,



UAAU,oBAAV,CAAL,C;YAAyB,WAAY,WAAL,oBAAJ,C;;QAC3D,OAAO,W;O;KAPX,C;sFAUA,6C;MAMoB, Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WA AY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAA A,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFA GX,6C;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAGB,SAAhB,g B;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,O AAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UA AU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wB AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OA AJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q AAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMo B,Q;MAAhB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WA AY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAMoB,Q;QAAhB, wBAAGB,SAAhB,gB;UAAgB,cAAhB,UAAGB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,WAA Y,WAAL,oBAAJ,C;;QAC1D,OAAO,W;O;KAPX,C;IAUA,mC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMhtle,W;O NitItC,OAA4D,OAArD,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,CAAqD,C;K;IA GhE,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxtIe,W;ONyItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ,MAApB,EA A2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMh uIe,W;ONiutC,Oe7rIuC,Of6rIhC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI gC,C;K;IfgsI3C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxule,W;ONyultC,Oe7rIqC,Of6rI9B,yBAAY,OAAQ, MAAPB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI8B,C;K;IfgsIzC,qC;MAII,IAAI,OAAQ,UAAZ,C;Q AAuB,OMhve,W;ONivItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IA A3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxvIe,W;ONyvItC,Oe7rIuC,Of6rIhC,yBA AY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIgc,C;K;IfgsI3C,qC;MAII,IAAI,OAAQ, UAAZ,C;QAAuB,OMhwIe,W;ONiwItC,Oe7rIwC,Of6rIjC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAu B,CAAvB,IAA3B,Ce7rIiC,C;K;IfgsI5C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxwIe,W;ONywItC,Oe7rIyC, Of6rIIc,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIkC,C;K;IfgsI7C,qC;MAII, IAAI,OAAQ,UAAZ,C;QAAuB,OMhxIe,W;ONixItC,OAA4D,SAArD,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,a AAR,GAAuB,CAAvB,IAA3B,CAAqD,C;K;IAGhE,qC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EA AxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAAW,iBAAa,IAAb,C;MACG,yB;MAAd,OA Ac,cAAd,C;QAAc,uB;QACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,qC;MAOkB,Q;MAH d,WAAmB,wBAAR,OAAQ,EAAwB,EAAXB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAA W,iBAAGB,IAAhB,C;MACG,yB;MAAd,OAAC,cAAd,C;QAAc,uB;QACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;; MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAXB,C;MACnB,IAAI,SA AQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAC,cAAd,C;QAAc,uB;Q ACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OA AQ,EAAwB,EAAXB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAAW,iBAAe,IAAf,C;MACG, yB;MAAd,OAAC,cAAd,C;QAAc,uB;QACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;M AOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAXB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W; MACTB,WAAW,iBAAGB,IAAhB,C;MACG,yB;MAAd,OAAC,cAAd,C;QAAc,uB;QACV,IAAK,WAAL,UAAI,KAA J,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAXB,C;MAC nB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAC,cAAd,C; QAAc,uB;QACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB, wBAAR,OAAQ,EAAwB,EAAXB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACTB,WAAW,iBAAbB,IA AIB,C;MACG,yB;MAAd,OAAC,cAAd,C;QAAc,uB;QACV,IAAK,WAAL,UAAI,KAAJ,CAAJ,C;;MAET,OAAO, I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAXB,C;MACnB,IAAI,SAAQ,CAAZ,C;Q AAe,OAAO,W;MACTB,WAAW,iBAAmB,IAAnB,C;MACG,yB;MAAd,OAAC,cAAd,C;QAAc,uB;QACV,IAAK,

WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB ,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAGB,IAAhB,C;MACG,yB;MA Ad,OAAc,cAAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,EAAJ,C;;MAET,OAAO,I;K;IAGX,wC;MAMw B,UACT,M;MAHX,aAAa,aAAa,SAAb,EAAmB,OAAQ,KAA3B,C;MACb,kBAaKB,C;MACE,yB;MAApB,OAAO B,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M; K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,cAAU,OAAQ,KAAIB,C;MACb,kBAaKB,C;MACE,yB;MAApB,O AAOB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO ,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,eAAW,OAAQ,KAAIB,C;MACb,kBAaKB,C;MACE,yB;MAA pB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,O AAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,eAAS,OAAQ,KAAjB,C;MACb,kBAaKB,C;MACE,yB;M AApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5 B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAU,OAAQ,KAAIB,C;MACb,kBAaKB,C;MACE, yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;; MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAW,OAAQ,KAAIB,C;MACb,kBAaKB,C; MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WA AL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAY,OAAQ,KAApB,C;MACb,kBAA kB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK ,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,oBAAa,OAAQ,KAArB,C;MACb,k BAAKB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,U AAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAU,OAAQ,KAAIB,C;MA Cb,kBAaKB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QACHB,OAAO,oBAAP,EAAO,4BAAP,YAA wB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,yBAAY,CAA Z,EAAe,CAAf,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;I AGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,cAAU,CAAV,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB, EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,eAA W,CAAX,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX ,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,eAAS,CAAT,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA 2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAU,C AAV,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C; MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAW,CAAX,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2 B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAY,CA AZ,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;M AII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,oBAAa,CAAb,C;MAC9B,OAAO,0BAAY,OAAQ,MAApB,EAA2B,O AAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAU,CAAV ,C;MAC9B,OAAO,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,4B;MAci B,Q;Mc3nJb,IAAI,EdqnJI,KAAK,CernJT,CAAJ,C;QACI,cdonJc,sD;QcnnJd,MAAM,gCAAYB,OAAQ,WAAjC,C; OdonJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,iB;MACtB,IAA I,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAa,CA Ab,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CA Af,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McjpJb,IAAI,Ed2oJI,KAAK,Cc3oJT,CAAJ,C;QACI,cd0J c,sD;QczoJd,MAAM,gCAAYB,OAAQ,WAAjC,C;Od0oJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAA I,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAA P,C;MACnB,YAAY,C;MACZ,WAAW,iBAAGB,CAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;Q ACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mcvq Jb,IAAI,EdiqJI,KAAK,CcjqJT,CAAJ,C;QACI,cdgqJc,sD;Qc/pJd,MAAM,gCAAYB,OAAQ,WAAjC,C;OdgqJV,IA AI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK, CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAJB,C;M ACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UA

CI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc7rJb,IAAI,EdurJI,KAAK,CcvtJT,CAAJ,C;QACI,cdsrJc,sD;QcrrJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdsrJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAae,CAaf,C;MACX,wBAaA,SAAb,gB;QAaA,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McntJb,IAAI,Ed6sJI,KAAK,Cc7sJT,CAAJ,C;QACI,cd4sJc,sD;Qc3sJd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od4sJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAaA,SAAb,gB;QAaA,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;MczuJb,IAAI,EdmuJI,KAAK,CcnuJT,CAAJ,C;QACI,cdkuJc,sD;QcjuJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdkuJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAaiB,CAAjB,C;MACX,wBAaA,SAAb,gB;QAaA,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc/vJb,IAAI,EdyvJI,KAAK,CczvJT,CAAJ,C;QACI,cdwvJc,sD;QcvvJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdwwJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAakB,CAaIB,C;MACX,wBAaA,SAAb,gB;QAaA,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McrxJb,IAAI,Ed+wJI,KAAK,Cc/wJT,CAAJ,C;QACI,cd8wJc,sD;Qc7wJd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8wJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAmB,CAAnB,C;MACX,wBAaA,SAAb,gB;QAaA,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc3yJb,IAAI,EdqyJI,KAAK,Cc3yJT,CAAJ,C;QACI,cdoyJc,sD;QcnyJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdoyJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,EAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAaA,SAAb,gB;QAaA,WAAb,UAAa,SAAb,O;QACI,IAAK,WAAI,iBAAJ,C;QACL,IAAI,mCAAW,CAaf,C;UACI,K;;MAER,OAAO,I;K;IAGX,gC;McnzJI,IAAI,Ed2zJI,KAAK,Cc3zJT,CAAJ,C;QACI,cd0zJc,sD;QczzJd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0zJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAae,OAAO,iB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAaA,CAAb,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mct0JI,IAAI,Ed80JI,KAAK,Cc90JT,CAAJ,C;QACI,cd60Jc,sD;Qc50Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od60JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mcz1JI,IAAI,Edi2JI,KAAK,Ccj2JT,CAAJ,C;QACI,cdg2Jc,sD;Qc/1Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odg2JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAaiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc52JI,IAAI,Edo3JI,KAAK,Ccp3JT,CAAJ,C;QACI,cdm3Jc,sD;Qcl3Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odm3JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAae,CAaf,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc/3JI,IAAI,Ed4JI,KAAK,Ccv4JT,CAAJ,C;QACI,cds4Jc,sD;Qcr4Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Ods4JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U

;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc15JI,IAAI,Ed05JI,KAAK,Cc15JT,C  
AAJ,C;QACI,cdy5Jc,sD;Qcx5Jd,MAAM,gCAAYB,OAAQ,WAAjC,C;Ody5JV,IAAI,MAAK,CAAT,C;QAAy,OA  
AO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACTb,IAAI,MAAK,CAAT,C;QA  
AY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,iBAAc,OA  
AO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc  
r6JI,IAAI,Ed66JI,KAAK,Cc76JT,CAAJ,C;QACI,cd46Jc,sD;Qc36Jd,MAAM,gCAAYB,OAAQ,WAAjC,C;Od46JV,  
IAAI,MAAK,CAAT,C;QAAy,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;M  
ACTb,IAAI,MAAK,CAAT,C;QAAy,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBA  
AkB,CAAIB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,  
C;MACT,OAAO,I;K;IAGX,kC;Mcx7JI,IAAI,Edg8JI,KAAK,Cch8JT,CAAJ,C;QACI,cd+7Jc,sD;Qc97Jd,MAAM,g  
CAAYB,OAAQ,WAAjC,C;Od+7JV,IAAI,MAAK,CAAT,C;QAAy,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,  
KAAK,IAAT,C;QAAe,OAAO,mB;MACTb,IAAI,MAAK,CAAT,C;QAAy,OAAO,OAAO,UAAK,OAAO,CAAP,I  
AAL,CAAP,C;MACnB,WAAW,iBAAmB,CAAnB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QA  
CI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc38JI,IAAI,Edm9JI,KAAK,Ccn9JT,CAA  
J,C;QACI,cdk9Jc,sD;Qcj9Jd,MAAM,gCAAYB,OAAQ,WAAjC,C;Odk9JV,IAAI,MAAK,CAAT,C;QAAy,OAAO,  
W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACTb,IAAI,MAAK,CAAT,C;QAAy,  
OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,EAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAA  
O,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,EAJ,C;MACT,OAAO,I;K;gGAGX,yB;M  
AAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAA  
U,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;k  
GAcA,yB;MAAA,8D;MAAA,2C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,  
CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O  
;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;U  
ACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,O  
AAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,C  
AA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,  
C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBA  
Ac,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK  
,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;  
QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OA  
AO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;  
MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C  
;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,oC;  
MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,  
KAAL,EA AV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;wFAcA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAaA,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAaA,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAaA,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAaA,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAaA,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA

AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA  
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;  
MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WA  
Ab,UAAa,SAAb,O;UACI,IAAI,CAAC,UAAU,iBAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,iBAAJ,C;;QAET,O  
AAO,I;O;KAZX,C;IAeA,4B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf  
,C;QAAkB,M;MACIB,mBAAmB,wB;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;  
QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAA  
e,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;M  
ACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAA  
L,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CA  
Ab,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;  
QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QA  
CrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QA  
AkB,M;MACIB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,  
UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAA  
C,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;MACnB,  
iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;Q  
ACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;  
MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI  
,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,m  
C;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;  
MACIB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,  
KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBA  
AO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;MACnB,iBAAc,  
CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,U  
AAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,I  
AAI,WAAW,CAAf,C;QAAkB,M;MACIB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU  
,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;I  
AIR,kD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAA  
Z,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB  
,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;Q  
ACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,kD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,  
gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;  
MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;Q  
ACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCA  
Aa,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CA  
AxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA  
8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,  
IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,  
eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAm  
B,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAA  
L,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAA,2BAAkB,SA  
AlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,  
cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QAC  
I,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,

mC;;K;IAIR,mD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAA Y,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I; MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,Y AAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7 B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAA Y,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C; QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK, KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD; MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAtC,C;MACb,eAAe,CAAC,YAA Y,OAAZ,IAAD,I AAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,S AAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UA AK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAA5C,gBAAt C,C;MACb,eAAe,CAAC,YAA Y,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3 B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,U AAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,6B;MAII,IA+nEO,qBA AQ,CA/nEf,C;QAAe,OAAO,W;MACtB,WAAW,wB;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII ,IA6nEO,qBAAQ,CA7nEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;I AGX,+B;MAII,IA2nEO,qBAAQ,CA3nEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MAC L,OAAO,I;K;IAGX,+B;MAII,IAynEO,qBAAQ,CAznEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,I AAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAunEO,qBAAQ,CAvnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;M ACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAqnEO,qBAAQ,CAnEf,C;QAAe,OAAO,W;MACtB, WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAmnEO,qBAAQ,CAnnEf,C;QAAe,OA AO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAinEO,qBAAQ,CAjnEf, C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IA+mEO,qB AAQ,CA/mEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,kC;MA II,IAqiEO,qBAAQ,CAriEf,C;QAAe,OAAO,S;MACtB,aAAa,aAAa,SAAb,EAAMB,gBAAnB,C;MACb,gBAAgB,w B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,O AAO,M;K;IAGX,oC;MAII,IAiiEO,qBAAQ,CAjiEf,C;QAAe,OAAO,S;MACtB,aAAa,cAAU,gBAAV,C;MACb,gB AAgB,0B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;M AC5B,OAAO,M;K;IAGX,oC;MAII,IA6hEO,qBAAQ,CA7hEf,C;QAAe,OAAO,S;MACtB,aAAa,eAAW,gBAAX, C;MACb,gBAAgB,0B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK ,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAyhEO,qBAAQ,CAzhEf,C;QAAe,OAAO,S;MACtB,aAAa,eAA S,gBAAT,C;MACb,gBAAgB,0B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAihEO,qBAAQ,CAjhEf,C;QAAe,OAAO, S;MACtB,aAAa,iBAAW,gBAAX,C;MACb,gBAAgB,0B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,Y AAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IA6gEO,qBAAQ,CA7gEf,C;Q AAe,OAAO,S;MACtB,aAAa,iBAAY,gBAAZ,C;MACb,gBAAgB,0B;MACHb,aAAU,CAAV,OAAa,SAAb,M;QA CI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAygEO,qBAAQ, CAzgEf,C;QAAe,OAAO,S;MACtB,aAAa,oBAAb,gBAAb,C;MACb,gBAAgB,0B;MACHb,aAAU,CAAV,OAAa,S AAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAqgE O,qBAAQ,CArgEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MACHb,aAAU,CA AV,OAAa,SAAb,M;QACI,OAAO,YAA Y,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,4B; MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8 B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ, 8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAG J,sC;MAOI,aAAU,wBAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAA W,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,sC;MA

OI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,  
CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,  
0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;  
QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,  
OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,U  
AAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,OAA2B,C  
AA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CA  
AL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M  
;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,  
UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QA  
AQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,C  
AAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MA  
AO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;  
QACV,UAAK,CAAL,IAAU,I;;K;IAIIB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iB  
AAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,U  
AAK,CAAL,IAAU,I;;K;IAIIB,yB;MAAA,oD;MgBn5LA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4  
B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3  
B,C;W;S;OA4DI,C;MhB44Lf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,oBgB15Ld,eAAW,iBhBk5LsB,QgB15LtB,  
CAAX,ChBk5Lc,C;U;KANIB,C;sGASA,yB;MAAA,oD;MgBz4LA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;e  
AwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,  
CAA3B,C;W;S;OA+EI,C;MhBk4Lf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,oBgBx4Ld,eAAW,2BhBw4LgC,Q  
gBx4LhC,CAAX,ChBw4Lc,C;U;KANIB,C;IASA,mC;MAMI,oBAAS,cAAT,C;K;IAGJ,qC;MAII,IAAI,mBAAO,C  
AAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAIL,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAIL,IAAI,  
mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAIL,IAAI,mBAAO,CAAX,C;QACI,iB;QACA,oB;Q;IAIR,qC;  
MAIL,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAIL,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;  
Q;IAIR,qC;MAIL,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,2B;MAMI,OAAqB,OAAd,sBAAC,C;K;IAG  
zB,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB5gMhC,WjB4gMgC,C;K;IAG3C,6B;MAI0B,kBAAf  
,yB;MAAuB,mB;MAA9B,OAAuC,OiBnhMhC,WjBmhMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MA  
A9B,OAAuC,OiB1hMhC,WjB0hMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBjiM  
hC,WjBiiMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBxiMhC,WjBwiMgC,C;K;IA  
G3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB/iMhC,WjB+iMgC,C;K;IAG3C,6B;MAI0B,kBAA  
f,0B;MAAuB,mB;MAA9B,OAAuC,OiBtjMhC,WjBsjiMgC,C;K;IAG3C,gC;MAMI,IA6kDO,qBAAQ,CA7kDf,C;Q  
AAe,OAAO,S;MACD,kBAAd,SejKiB,Q;MfojKK,mB;MAA7B,OiBhkMO,W;K;IjBmkMX,kC;MAIL,IA6kDO,qB  
AAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SejKiB,Q;MfkjKK,iB;MAA7B,OiBxkMO,W;K;IjB2kMX,kC;  
MAIL,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SehKiB,Q;MfgjKK,iB;MAA7B,OiBhlMO,W  
;K;IjBmlMX,kC;MAIL,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,Se9iKiB,Q;Mf8iKK,iB;MA  
A7B,OiBxIMO,W;K;IjB2IMX,kC;MAIL,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SA  
AK,C;MAAiB,mB;MAA7B,OiBhmMO,W;K;IjBmmMX,kC;MAIL,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;  
MACD,kBAAd,Se3iKiB,Q;Mf2iKK,iB;MAA7B,OiBxmMO,W;K;IjB2mMX,kC;MAIL,IA6kDO,qBAAQ,CA7kDf,  
C;QAAe,OAAO,S;MACD,kBAAd,SeziKiB,Q;MfyiKK,iB;MAA7B,OiBhnMO,W;K;IjBmnMX,kC;MAIL,IAqIDO,  
qBAAQ,CARlDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,iB;MAA7B,OiBxnMO,W;K;IjB2nM  
X,0C;MAMI,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SetnKiB,Q;MfsnKK,sBAAS,cAAT,C;  
MAA7B,OiBloMO,W;K;IjBqoMX,4C;MAIL,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,Sejn  
iB,Q;MfonKK,6B;MAA7B,OiB1oMO,W;K;IjB6oMX,4C;MAIL,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MA  
CD,kBAAd,SeInKiB,Q;MfknKK,6B;MAA7B,OiBlpMO,W;K;IjBqpMX,4C;MAIL,IA2gDO,qBAAQ,CA3gDf,C;Q  
AAe,OAAO,S;MACD,kBAAd,SehnKiB,Q;MfgnKK,6B;MAA7B,OiB1pMO,W;K;IjB6pMX,4C;MAIL,IA2gDO,qB  
AAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,6B;MAA7B,OiBlqMO,W;K;IjBqqMX  
,4C;MAIL,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,Se7mKiB,Q;Mf6mKK,6B;MAA7B,OiB1

qMO,W;K;IjB6qMX,4C;MAIL,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,Se3mKiB,Q;Mf2mK  
K,6B;MAA7B,OiBlrMO,W;K;IjBqrMX,4C;MAIL,IamhDO,qBAAQ,CAnhDf,C;QAAe,OAAO,S;MACD,kBAAT,  
UAAL,SAAK,C;MAAiB,6B;MAA7B,OiB1rMO,W;K;IjB6rMX,gD;MAMI,IAy8CO,qBAAQ,CAz8Cf,C;QAAe,O  
AAO,S;MACD,kBAAd,SexrKiB,Q;MfwrKK,iC;MAA7B,OiBpsMO,W;K;sFjBusMX,yB;MAAA,wD;MgB5rMA,s  
C;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4  
DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBqrMf,sC;QAQI,OAAO,sBgB7rMP,  
eAAW,iBhB6rMiB,QgB7rMjB,CAAX,ChB6rMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBvsMA,sC;MAAA,  
oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5D  
hB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBgsMf,sC;QAMI,OAAO,sBgBtsMP,eAAW,iBh  
BssMiB,QgBtsMjB,CAAX,ChBssMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgBhtMA,sC;MAAA,oC;MAAA,u  
BAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,E  
AA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBysMf,sC;QAMI,OAAO,sBgB/sMP,eAAW,iBhB+sMiB,Qg  
B/sMjB,CAAX,ChB+sMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgBztMA,sC;MAAA,oC;MAAA,uBAOe,yB;Q  
ArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4D  
M,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBktMf,sC;QAMI,OAAO,sBgBxtMP,eAAW,iBhBwtMiB,QgBxtMjB,CA  
AX,ChBwtMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgBluMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;e  
AqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5D  
N,CAA3B,C;W;S;OA4DI,C;MhB2tMf,sC;QAMI,OAAO,sBgBjuMP,eAAW,iBhBiuMiB,QgBjuMjB,CAAX,ChBiu  
MO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgB3uMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;U  
AAA,uB;YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C  
;W;S;OA4DI,C;MhBouMf,sC;QAMI,OAAO,sBgB1uMP,eAAW,iBhB0uMiB,QgB1uMjB,CAAX,ChB0uMO,C;O;  
KANX,C;wFASA,yB;MAAA,wD;MgBpvMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;  
YAAU,eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA  
4DI,C;MhB6uMf,sC;QAMI,OAAO,sBgBnvMP,eAAW,iBhBmvMiB,QgBnvMjB,CAAX,ChBmvMO,C;O;KANX,  
C;wFASA,yB;MAAA,wD;MgB7vMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,  
eAAsB,gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;  
MhBsvMf,sC;QAMI,OAAO,sBgB5vMP,eAAW,iBhB4vMiB,QgB5vMjB,CAAX,ChB4vMO,C;O;KANX,C;wFAS  
A,yB;MAAA,wD;MgBtwMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,  
gB;YAAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB+v  
Mf,sC;QAMI,OAAO,sBgBrwMP,eAAW,iBhBqwMiB,QgBrwMjB,CAAX,ChBqwMO,C;O;KANX,C;0GASA,yB;  
MAAA,wD;MgB5vMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;Y  
AAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBqvMf,sC;Q  
AMI,OAAO,sBgB3vMP,eAAW,2BhB2vM2B,QgB3vM3B,CAAX,ChB2vMO,C;O;KANX,C;4GASA,yB;MAAA,  
wD;MgBrwMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,O  
A/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB8vMf,sC;QAI,OAAO,  
sBgBlwMP,eAAW,2BhBkwM2B,QgBlwM3B,CAAX,ChBkwMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB5  
wMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAA  
c,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBqwMf,sC;QAI,OAAO,sBgBz  
wMP,eAAW,2BhBywM2B,QgBzwM3B,CAAX,ChBywMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBnxMA,sC;  
MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB  
,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB4wMf,sC;QAI,OAAO,sBgBhxMP,eAA  
W,2BhBgxM2B,QgBhxM3B,CAAX,ChBgxMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB1xMA,sC;MAAA,oC;  
MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,C  
AAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBmxMf,sC;QAI,OAAO,sBgBvxMP,eAAW,2BhBux  
M2B,QgBvxM3B,CAAX,ChBuxMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBjyMA,sC;MAAA,oC;MAAA,iC  
AOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA  
2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB0xMf,sC;QAI,OAAO,sBgB9xMP,eAAW,2BhB8xM2B,QgB9  
xM3B,CAAX,ChB8xMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBxyMA,sC;MAAA,oC;MAAA,iCAOe,yB;QA



xFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBiyMf,sC;QAII,OAAO,sBgBryMP,eAAW,2BhBqyM2B,QgBryM3B,CAAX,ChBqyMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB/yMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBwyMf,sC;QAII,OAAO,sBgB5yMP,eAAW,2BhB4yM2B,QgB5yM3B,CAAX,ChB4yMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBtzMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB+yMf,sC;QAII,OAAO,sBgBnzMP,eAAW,2BhBmzM2B,QgBnzM3B,CAAX,ChBmzMO,C;O;KAJX,C;IAOA,qC;MAMI,OAAO,sBAAW,cAAX,C;K;IAGX,uC;MAIoB,kBel1KQ,iB;Mfk1KA,iB;MAAxB,OAAiC,WiBx2M1B,WjBw2M0B,C;K;IAGrC,uC;MAIoB,kBe/0KQ,iB;Mf+0KA,iB;MAAxB,OAAiC,WiB/2M1B,WjB+2M0B,C;K;IAGrC,uC;MAIoB,kBe50KQ,iB;Mf40KA,iB;MAAxB,OAAiC,WiBt3M1B,WjBs3M0B,C;K;IAGrC,uC;MAIoB,kBAAT,oB;MAAiB,mB;MAAxB,OAAiC,WiB73M1B,WjB63M0B,C;K;IAGrC,uC;MAIoB,kBev0KQ,iB;Mfu0KA,iB;MAAxB,OAAiC,WiBp4M1B,WjBo4M0B,C;K;IAGrC,uC;MAIoB,kBep0KQ,iB;Mfo0KA,iB;MAAxB,OAAiC,WiB34M1B,WjB24M0B,C;K;IAGrC,uC;MAIoB,kBAAT,oB;MAAiB,iB;MAAxB,OAAiC,WiB51M1B,WjBk5M0B,C;K;IAGrC,2C;MAMI,OAAmC,OAA5B,2BAAgB,UAAhB,CAA4B,C;K;IAGvC,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB16M9C,WjBk6M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBz6M9C,WjBy6M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBh7M9C,WjBg7M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBv7M9C,WjBu7M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB97M9C,WjB87M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBr8M9C,WjBq8M8C,C;K;IAGzD,6C;MAIoB,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB58M9C,WjB48M8C,C;K;IAGzD,6C;MAIoB,kBAAf,0B;MAAuB,iC;MAA9B,OAAqD,OiBn9M9C,WjBm9M8C,C;K;IAkoCrD,gC;MAAQ,oBAAS,CAAT,EAAY,wBAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAOP,kC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IA8TZ,yD;MAcI,sBAAS,cAAT,EAAYB,SAAZB,EAAoC,OAAPC,C;K;IAGJ,yD;MAYI,mBAAK,SAAL,EAAGB,OAAhB,C;MACA,qBAAQ,SAAR,EAAMB,OAANB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAGB,OAAhB,C;MACA,sBAAQ,SAAR,EAAMB,OAANB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAGB,OAAhB,C;MACA,sBAAQ,SAAR,EAAMB,OAANB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAGB,OAAhB,C;MACA,sBAAQ,SAAR,EAAMB,OAANB,C;K;IA2B0B,oD;MAAA,wB;QAAW,2BAAK,KAAL,C;O;K;IAJzC,mC;MAII,OAAO,qBAAa,gBAAb,EAAMB,gCAANB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAAO,+BAAU,gBAAV,GAAgB,6BAAhB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJxk,kC;MAII,OAAO,kCAAY,gBAAZ,GAakB,+BAAIB,C;K;IAOiB,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII,OAAO,kC

AAW,gBAAX,GAAiB,8BAAjB,C;K;IAOe,4C;MAAA,wB;QAAW,uBAAK,KAAL,C;O;K;IAJrC,+B;MAII,OAAO ,gCAAS,gBAAT,GAAe,4BAAf,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAA O,kBAAU,gBAAV,EAAgB,6BAAhB,C;K;IAOiB,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII, OAAO,gCAAW,gBAAX,GAAiB,8BAAjB,C;K;wFA2CX,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAW I,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAYqBH,Q;QAA hB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOx+QnB,wBAAI,IAAK,MAAT,EAAGB, IAAK,OAArB,C;;QP8zPA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;Q AWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAYqBH,Q; QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOv/QnB,wBAAI,IAAK,MAAT,EA AgB,IAAK,OAArB,C;;QP60PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA, uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAYqB H,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOrhRnB,wBAAI,IAAK,M AAT,EAAGB,IAAK,OAArB,C;;QP41PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA AA,uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QA YqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOpIrnB,wBAAI,IAA K,MAAT,EAAGB,IAAK,OAArB,C;;QP03PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAA A,uE;MAAA,uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,QAA pB,C;QAYqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOnjRnB,wBAAI, IAAK,MAAT,EAAGB,IAAK,OAArB,C;;QPpy4PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;M AAA,uE;MAAA,uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAoB,Q AApB,C;QAYqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOlKrnB,wBA AI,IAAK,MAAT,EAAGB,IAAK,OAArB,C;;QPw5PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAAA,y D;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAY,mBAAo B,QAApB,C;QAYqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOjlrnB,w BAAI,IAAK,MAAT,EAAGB,IAAK,OAArB,C;;QPu6PA,OA4qBO,W;O;KAXrBX,C;0FAeA,yB;MAAA,0D;MAA A,yD;MAAA,uE;MA4qBA,oC;MAAA,gC;MA5qBA,uC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EA Ad,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAYqBH,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,WA1qB8C,SA0q B/B,CAAU,oBAAV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAArB,C;;QPs7PA,OA4qBO,W;O;KAXr BX,C;4FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,E AAC,EAAd,C;QAC1B,kBAAC,mBAAoB,QAApB,C;QAmQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAp QoC,WAOqHc,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QApQhB,OASQO,W;O;KAIrX,C;8FAeA,yB;MAAA,0 D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBA Ac,mBAAuB,QAAvB,C;QAOQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aArQuC,WaqQnC,CAAY,OAA Z,CAAJ,EAA0B,OAA1B,C;;QArQhB,OAuQO,W;O;KANrX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA AA,yC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAAwB,QAAxB,C;QAq QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtQwC,WAsQpC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;; QAtQhB,OAwQO,W;O;KApRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAI B,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAAuB,QAAvB,C;QAUQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAx QuC,WAwQnC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAxQhB,OA0QO,W;O;KATrX,C;8FAeA,yB;MAAA,0 D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBA Ac,mBAAwB,QAAxB,C;QAwQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAzQwC,WAYqPc,CAAY,OA AZ,CAAJ,EAA0B,OAA1B,C;;QAZqHb,OA2QO,W;O;KAvRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;

MAAA,yC;QAWI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAAyB,QAAzB,C;  
QAYQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1QyC,WA0QrC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B  
,C;;QA1QhB,OA4QO,W;O;KAxRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,c  
AAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAA0B,QAA1B,C;QA0QL,Q;QAAhB,iD;UAA  
gB,cAAhB,e;UACI,WAAY,aA3Q0C,WA2QIC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QA3QhB,OA6QO,W;O;  
KAzRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA6QA,oC;MAAA,gC;MA7QA,yC;QAWI,eAAiC,cAA  
IB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAAuB,QAAvB,C;QA2QL,Q;QAAhB,iD;UAAgB,  
cAAhB,0B;UACI,WAAY,aA5QuC,WA4QnC,CAAY,oBAAZ,CAAJ,EAA0B,oBAA1B,C;;QA5QhB,OA8QO,W;O  
;KA1RX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAk  
B,EAAC,EAAd,C;QAC1B,kBAAC,mBAAoB,QAApB,C;QA6QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,a  
A9QoC,WA8QhC,CAAY,OAAZ,CAAJ,EA9QiD,cA8QvB,CAAe,OAaf,CAA1B,C;;QA9QhB,OAgRO,W;O;KA3  
RX,C;8FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EA  
Ac,EAAd,C;QAC1B,kBAAC,mBAAoB,QAApB,C;QA+QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhRo  
C,WAgrhC,CAAY,OAAZ,CAAJ,EAhRiD,cAgRvB,CAAe,OAaf,CAA1B,C;;QAhrhB,OAkRO,W;O;KA7RX,C;+  
FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EA  
Ad,C;QAC1B,kBAAC,mBAAoB,QAApB,C;QAiRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAIrOC,Wak  
RhC,CAAY,OAAZ,CAAJ,EAIrID,cAkRvB,CAAe,OAaf,CAA1B,C;;QAIRhB,OAoRO,W;O;KA/RX,C;+FAcA,y  
B;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;Q  
AC1B,kBAAC,mBAAoB,QAApB,C;QAmRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApRoC,WAOrhC,  
CAAY,OAAZ,CAAJ,EApRiD,cAoRvB,CAAe,OAaf,CAA1B,C;;QApRhB,OAsoRO,W;O;KAjSX,C;+FAcA,yB;M  
AAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1  
B,kBAAC,mBAAoB,QAApB,C;QAqRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtRoC,WAsoRhC,CAAY  
,OAAZ,CAAJ,EAtRiD,cAsRvB,CAAe,OAaf,CAA1B,C;;QAtRhB,OAwoRO,W;O;KANsX,C;+FAcA,yB;MAAA,0  
D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBA  
Ac,mBAAoB,QAApB,C;QAuRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxRoC,WAwRhC,CAAY,OAA  
Z,CAAJ,EAxRiD,cAwRvB,CAAe,OAaf,CAA1B,C;;QAxRhB,OA0RO,W;O;KArSX,C;+FAcA,yB;MAAA,0D;M  
AAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,m  
BAAoB,QAApB,C;QAYRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1RoC,WA0RhC,CAAY,OAAZ,CA  
AJ,EA1RiD,cA0RvB,CAAe,OAaf,CAA1B,C;;QA1RhB,OA4RO,W;O;KAvsX,C;+FAcA,yB;MAAA,0D;MAAA,y  
D;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1B,kBAAC,mBAAo  
B,QAApB,C;QA2RL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5RoC,WA4RhC,CAAY,OAAZ,CAAJ,EA  
5RiD,cA4RvB,CAAe,OAaf,CAA1B,C;;QA5RhB,OA8RO,W;O;KazSX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MA  
AA,uE;MA8RA,oC;MAAA,gC;MA9RA,yD;QAUI,eAAiC,cAAIB,YAAAY,gBAAZ,CAAkB,EAAC,EAAd,C;QAC1  
B,kBAAC,mBAAoB,QAApB,C;QA6RL,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,WAAY,aA9RoC,WA8RhC,CA  
AY,oBAAZ,CAAJ,EA9RiD,cA8RvB,CAAe,oBAaf,CAA1B,C;;QA9RhB,OAgsO,W;O;KA3SX,C;gGAcA,+C;MA  
UoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAAY,OAAZ,CAAJ,EAA  
0B,OAA1B,C;;MAEhB,OAao,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh  
B,M;QACI,WAAY,aAAI,YAAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAao,W;K;kGAGX,+C;MAUoB,  
Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAAY,OAAZ,CAAJ,EAA0B,O  
AA1B,C;;MAEhB,OAao,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;  
QACI,WAAY,aAAI,YAAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAao,W;K;kGAGX,+C;MAUoB,Q;MAAhB,  
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MA  
EhB,OAao,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAA  
Y,aAAI,YAAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAao,W;K;kGAGX,yB;MAAA,oC;MAAA,gC;MAA  
A,sD;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAY,aAAI,YAAAY,o

BAAZ,CAAJ,EAA0B,oBAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;kGAgBA,+D;MAUoB,Q;MAAhB,wBAAgB,S  
AAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;  
MAEhB,OAAO,W;K;kGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,W  
AAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;  
MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAA  
e,OAaf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,  
SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;MAEhB,OAAO,W;K;mGA  
GX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,  
CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB  
,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;MAEh  
B,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,  
aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OAaf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAA  
hB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAy,aAAI,YAAy,OAaZ,CAAJ,EAA0B,eAAe,OA  
Af,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,yB;MAAA,oC;MAAA,gC;MAAA,sE;QUoB,Q;QAAhB,wBAAgB  
,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAy,aAAI,YAAy,oBAAZ,CAAJ,EAA0B,eAAe,oBAA  
f,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;2FAGBA,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAA  
A,SAAhB,M;QACI,WAAe,UAAU,OAaV,C;QOx+QnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MP0+Q  
A,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAe,U  
AAU,OAaV,C;QOv/QnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MPy/QA,OAAO,W;K;8FAGX,6C;M  
ASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAaV,C;QOtgRnB,wB  
AAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MPwgRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,S  
AAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAaV,C;QOrhRnB,wBAAI,IAAK,MAAT,EAAGB,IA  
AK,OAARb,C;;MPuhRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAA  
hB,M;QACI,WAAe,UAAU,OAaV,C;QOpiRnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MPsiRA,OAAO  
,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OA  
AV,C;QOnjRnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MPqjRA,OAAO,W;K;8FAGX,6C;MASoB,Q;M  
AAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAaV,C;QOlkRnB,wBAAI,IAAK,  
MAAT,EAAGB,IAAK,OAARb,C;;MPokRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q  
AAGB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAaV,C;QOjlRnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,  
C;;MPmlRA,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB  
;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAe,UAAU,oBAaV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAAGB,IA  
AK,OAARb,C;;QPkmRA,OAAO,W;O;KAZX,C;gGAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAY  
I,aAAa,mBAAsC,cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,CAATC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e  
;UArJuB,MAsJP,aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAgBA,yB;  
MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAYC,cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,  
CAAZC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CA  
Ab,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAIbA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,m  
BAA0C,cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,CAA1C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB  
,MAsJP,aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAIbA,yB;MAAA,0  
D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAwC,cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,CAAx  
C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CAAb,C;;Q  
AtJhB,OAAuB,M;O;KAd3B,C;kGAIbA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAYC,  
cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,CAAZC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,  
aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAIbA,yB;MAAA,0D;MAA  
A,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA0C,cAAIB,YAAy,gBAAZ,CAAKB,EAAC,EAAD,CAA1C,C;QAsJ  
G,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAaJ,EATJe,aAsJF,CAAC,OAAD,CAAb,C;;QAtJhB,OA  
AuB,M;O;KAd3B,C;kGAIbA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA2C,cAAIB,Y  
AAy,gBAAZ,CAAKB,EAAC,EAAD,CAA3C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,O

AAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGaiBA,yB;MAAA,0D;MAAA,yD;M  
AAA,uE;MAAA,2C;QAaI,aAAa,mBAA4C,cAAIB,YAAY,gBAAZ,CAAkB,EAAC,EAAd,CAA5C,C;QAsJG,Q;Q  
AAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,  
M;O;KAd3B,C;kGaiBA,yB;MAAA,uD;MAAA,0D;MAAA,yD;MAAA,uE;MAWJA,oC;MAAA,gC;MAxJA,2C;Q  
AaI,aAAa,mBAA2D,cAApC,YAAiB,aAAL,gBAAK,EAAa,GAAb,CAAjB,CAAoC,EAAC,EAAd,CAA3D,C;QAsJ  
G,Q;QAAhB,iD;UAAgB,cAAhB,0B;UArJuB,MAsJP,aAAI,oBAAJ,EAtJe,aAsJF,CAAc,oBAAAd,CAAb,C;;QAtJhB  
,OAAuB,M;O;KAd3B,C;oGaiBA,iD;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,  
WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAA  
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAA  
O,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,O  
AAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q  
AAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,i  
D;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,  
OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SA  
AhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;M  
AAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;  
MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,W  
AAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,yB;MAAA,oC;MAAA,gC;MAAA,  
wD;QAWoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAY,aAAI,oBAAJ,E  
AAa,cAAc,oBAAAd,CAAb,C;;QAEhB,OAAO,W;O;KAdX,C;IAiBA,8C;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAA  
a,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MALiB,Q;MAAb,wBAAa,SA  
Ab,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MALiB,Q;MAAb,w  
BAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MALiB,  
Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,  
gD;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAEhB,OAAO,  
W;K;IAGX,gD;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IAAJ,C;;MAE  
hB,OAAO,W;K;IAGX,gD;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAL,IA  
AJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY  
,WAAL,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MALiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,  
O;QACI,WAAY,WAAL,iBAAJ,C;;MAEhB,OAAO,W;K;IAGX,8B;MAII,OAAO,wBAAa,eAAW,YAAY,gBAAZ,  
CAAX,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAY,gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAA  
O,0BAAa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAa,YAAY,gBAAZ,CAAb,  
CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAY,gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAAO,0BA  
Aa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAgB,YAAY,gBAAZ,CAAhB,CA  
Ab,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAiB,YAAY,gBAAZ,CAAjB,CAAb,C;K;IAGX,gC;MAII,OAAO,0BA  
Aa,eAAc,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CAAd,CAAb,C;K;IAGX,2B;MALiB,IAAN,I;MAAA,QAA  
M,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,qB  
AAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MALiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;U  
AAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;  
K;IAOJ,6B;MALiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAA  
K,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MALiB,IAAN,I;MAAA,Q  
AAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,  
uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MALiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB  
;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,  
W;K;IAOJ,6B;MALiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,U  
AAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MALiB,IAAN,I;MAA  
A,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gB  
ACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MALiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAA

K,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;M  
AAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cA  
AO,sBAAK,CAAL,EAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,kC;MAII,OAAO,i  
BA Ae,aAAL,SAAK,CAAf,C;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa,SAAb  
,gB;QAAa,WAAA,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,W  
AAW,iBAAiB,gBAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;M  
ACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBA Ae,gBAAf,C;MACX,wBAAa,SAAb,gB;QAAa,WAA  
A,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,g  
BAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;  
K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAiB,gBAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;Q  
AAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAkB,gBAAiB,C;MA  
CX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;M  
AKiB,Q;MADb,WAAW,iBAAMB,gBAANB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,IAA  
K,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa  
,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QAAMB,IAAK,WAAI,iBAAJ,C;;MACxB,OAAO,I;K;IAGX,0B;MAMi  
B,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,  
C;UAAL,K;gBACQ,+BAAa,qBAAiB,YAAY,gBAAZ,CAAjB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,  
IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;  
UAAL,K;gBACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,I  
AAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;  
UAAL,K;gBACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA  
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U  
AAL,K;gBACQ,iCAAa,qBAAmB,YAAY,gBAAZ,CAANB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA  
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U  
AAL,K;gBACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA  
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U  
AAL,K;gBACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA  
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U  
AAL,K;gBACQ,iCAAa,qBAAsB,YAAY,gBAAZ,CAAtB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN  
,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAA  
L,K;gBACQ,iCAAa,qBAAuB,YAAY,gBAAZ,CAAvB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I  
;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,sBAAK,CAAL,EAAN,C;UAAL  
,K;gBACQ,iCAAa,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CAApB,CAAb,C;UAHL,K;;MAAP,W;  
K;oFAOJ,yB;MAAA,+D;MAwaA,gD;MAxaA,uC;QAMW,kBAAU,gB;QAAsD,Q;QAaHb,iD;UAAgB,cAAhB,e;U  
ACI,WAv6B,SAualB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QAxahB,OA0aO,W;O;KAhbX,C;  
sFASA,yB;MAAA,+D;MA0aA,gD;MA1aA,uC;QAMW,kBAAU,gB;QAwaD,Q;QAaHb,iD;UAAgB,cAAhB,e;UA  
CI,Waza6B,SAyalB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QA1ahB,OA4aO,W;O;KA1bX,C;sF  
ASA,yB;MAAA,+D;MA4aA,gD;MA5aA,uC;QAMW,kBAAU,gB;QA0aD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,  
WA3a6B,SA2alB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QA5ahB,OA8aO,W;O;KApbX,C;sFA  
SA,yB;MAAA,+D;MA8aA,gD;MA9aA,uC;QAMW,kBAAU,gB;QA4aD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,  
WA7a6B,SA6alB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QA9ahB,OAgbO,W;O;KAtbX,C;sFAS  
A,yB;MAAA,+D;MAGbA,gD;MAhbA,uC;QAMW,kBAAU,gB;QA8aD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,W  
A/a6B,SA+alB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QAhhbB,OakbO,W;O;KAxbX,C;sFASA  
,yB;MAAA,+D;MAkbA,gD;MA1bA,uC;QAMW,kBAAU,gB;QAgbD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,Waj  
b6B,SAi1bB,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QA1bhB,OAobO,W;O;KA1bX,C;sFASA,yB  
;MAAA,+D;MAobA,gD;MAPbA,uC;QAMW,kBAAU,gB;QAkbD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,WAnb6  
B,SAmb1B,CAAU,OAAV,C;UACC,OAAZ,WAA,Y,EAAO,IAAP,C;;QAphbB,OAsbO,W;O;KA5bX,C;sFASA,yB;  
MAAA,+D;MASbA,gD;MATbA,uC;QAMW,kBAAU,gB;QAobD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,WArb6B,

SAqblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtbhB,OAwbO,W;O;KA9bX,C;sFASA,yB;M  
AAA,+D;MAwbA,oC;MAAA,gD;MAAA,gC;MAxBa,uC;QAMW,kBAAU,gB;QAsbD,Q;QAAhB,iD;UAAgB,cA  
AhB,0B;UACI,WAvb6B,SAublB,CAAU,oBAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxhbB,OA0bO,W;  
O;KAhcX,C;sFASA,yB;MAAA,+D;MA0bA,gD;MA1bA,uC;QAUW,kBAAU,gB;QAwbD,Q;QAAhB,iD;UAAgB,  
cAAhB,e;UACI,WAZb6B,SAyblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1bhB,OA4bO,W;  
O;KAtcX,C;kGAaA,yB;MAAA,+D;MA5JA,gD;MATJA,uC;QAYW,kBAAiB,gB;QAqJR,gB;QADhB,YAAY,C;QA  
CZ,iD;UAAgB,cAAhB,e;UACI,WAtJoC,SAsJzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAA  
Z,WAAY,EAAO,IAAP,C;;QAvJhB,OAyJO,W;O;KArKX,C;oGAeA,yB;MAAA,+D;MAyJA,gD;MAzJA,uC;QAY  
W,kBAAiB,gB;QAwJR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WazJoC,SAyJzB,EAAU,cAAV  
,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1JhB,OA4JO,W;O;KAxKX,C;oG  
AeA,yB;MAAA,+D;MA4JA,gD;MA5JA,uC;QAYW,kBAAiB,gB;QA2JR,gB;QADhB,YAAY,C;QACZ,iD;UAAg  
B,cAAhB,e;UACI,WA5JoC,SA4JzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,E  
AAO,IAAP,C;;QA7JhB,OA+JO,W;O;KA3KX,C;oGAeA,yB;MAAA,+D;MA+JA,gD;MA/JA,uC;QAYW,kBAAiB,  
gB;QA8JR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WA/JoC,SA+JzB,EAAU,cAAV,EAAU,sBA  
AV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhKhB,OAkKO,W;O;KA9KX,C;oGAeA,yB;M  
AAA,+D;MAkKA,gD;MAIKa,uC;QAYW,kBAAiB,gB;QAIKR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,  
e;UACI,WAlKoC,SakKzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAA  
P,C;;QAnKhB,OAqKO,W;O;KAjLX,C;oGAeA,yB;MAAA,+D;MAqKA,gD;MArKA,uC;QAYW,kBAAiB,gB;QA  
oKR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WArKoC,SAqKzB,EAAU,cAAV,EAAU,sBAAV,  
WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtKhB,OAwKO,W;O;KAplX,C;oGAeA,yB;MAA  
A,+D;MAwKA,gD;MAxKA,uC;QAYW,kBAAiB,gB;QAuKR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;  
UACI,WaxKoC,SAwKzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAA  
P,C;;QazKhB,OA2KO,W;O;KAvLX,C;oGAeA,yB;MAAA,+D;MA2KA,gD;MA3KA,uC;QAYW,kBAAiB,gB;QA  
0KR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WA3KoC,SA2KzB,EAAU,cAAV,EAAU,sBAAV,  
WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5KhB,OA8KO,W;O;KA1LX,C;oGAeA,yB;MAA  
A,+D;MA8KA,oC;MAAA,gD;MAAA,gC;MA9KA,uC;QAYW,kBAAiB,gB;QA6KR,gB;QADhB,YAAY,C;QACZ  
,iD;UAAgB,cAAhB,0B;UACI,WA9KoC,SA8KzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,C;UACC,OA  
AZ,WAAY,EAAO,IAAP,C;;QA/KhB,OaiLO,W;O;KA7LX,C;oGAeA,yB;MAAA,+D;MAiLA,gD;MAjLA,uC;QA  
YW,kBAAiB,gB;QAgLR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WajLoC,SAiLzB,EAAU,cAA  
V,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAIhB,OAoLO,W;O;KAhMX,C;  
sGAeA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cA  
AA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IA  
AAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;  
QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,  
OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAA  
A,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAA  
W,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;  
O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,g  
B;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,W  
AAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QA  
FzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBA  
AV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MA  
AA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;  
UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEh  
B,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAA  
gB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UA  
CC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QAWoB,  
UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAA

V,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wG  
AkBA,yB;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAy,C;QACZ,wBAAGB,S  
AAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,  
C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;wGakBA,yB;MAAA,gD;MAAA,oD;QA  
WoB,UACS,M;QAFzB,YAAy,C;QACZ,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,  
cAAV,EAAU,sBAAV,WAAmB,OAAAnB,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;  
uFAkBA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,W  
AAW,UAAU,OAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAA  
A,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAA  
V,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;Q  
AIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,  
WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,w  
BAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAy,EAAO,IA  
AP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,g  
B;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OA  
AO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,S  
AAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;  
0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,W  
AAW,UAAU,OAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAA  
A,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAA  
V,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,oC;MAAA,gD;M  
AAA,gC;MAAA,oD;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,  
UAAU,oBAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;  
MAAA,oD;QAQoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;  
UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAZX,C;oFAeA,yB;MAAA,wE;MAiOA,+D;MAjO  
A,yC;QASW,kBAAU,oB;QAIoD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAIoD,WakOvC,CAAY,OAAZ,C;UO  
p5UP,U;UADP,YPs5Ue,Wot5UH,WPs5UwB,Got5UxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5UuC,gB;YAA5B,W  
On5UX,aPm5UgC,GO5UHc,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg5UA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q  
ApOT,OAsOO,W;O;KA/OX,C;sFAYA,yB;MAAA,wE;MAsoA,+D;MAtoA,yC;QASW,kBAAU,oB;QAsOD,Q;Q  
AAhB,iD;UAAgB,cAAhB,e;UACI,UAvOoD,WauO1C,CAAY,OAAZ,C;UOr6UP,U;UADP,YPu6Ue,Wov6UH,W  
Pu6UwB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB;YAA5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,  
MAAT,C;YACA,e;;YAEA,c;;UPI6UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAzOT,OA2OO,W;O;KAPX,C;sFAY  
A,yB;MAAA,wE;MA2OA,+D;MA3OA,yC;QASW,kBAAU,oB;QA2OD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,U  
A5OqD,WA4O3C,CAAY,OAAZ,C;UOt7UP,U;UADP,YPw7Ue,Wox7UH,WPw7UwB,GOx7UxB,C;UACL,IAAI,  
aAAJ,C;YACH,aPs7UuC,gB;YAA5B,WOr7UX,aPq7UgC,GO7UHc,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7U  
A,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9OT,OAgPO,W;O;KAZPX,C;sFAYA,yB;MAAA,wE;MAGPA,+D;MAhP  
A,yC;QASW,kBAAU,oB;QAgPD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjPmD,WaiPzC,CAAY,OAAZ,C;UO  
v8UP,U;UADP,YPy8Ue,Woz8UH,WPY8UwB,GOz8UxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,  
Wot8UX,aPs8UgC,Got8UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q  
AnPT,OaqPO,W;O;KA9PX,C;sFAYA,yB;MAAA,wE;MAqPA,+D;MARPA,yC;QASW,kBAAU,oB;QAqPD,Q;QA  
AhB,iD;UAAgB,cAAhB,e;UACI,UAtPoD,WAsP1C,CAAY,OAAZ,C;Uox9UP,U;UADP,YP09Ue,Wo19UH,WP0  
9UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5B,Wov9UX,aPu9UgC,GOv9UhC,EAAS,M  
AAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAxPT,OA0PO,W;O;KANQX,C;sFAYA,  
yB;MAAA,wE;MA0PA,+D;MA1PA,yC;QASW,kBAAU,oB;QA0PD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA3  
PqD,WA2P3C,CAAY,OAAZ,C;Uoz+UP,U;UADP,YP2+Ue,Wo3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aA  
AJ,C;YACH,aPy+UuC,gB;YAA5B,Wox+UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+U  
A,iB;UACA,IAAK,WAAI,OAAJ,C;;QA7PT,OA+PO,W;O;KAXQX,C;sFAYA,yB;MAAA,wE;MA+PA,+D;MA/P  
A,yC;QASW,kBAAU,oB;QA+PD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAhQsD,WagQ5C,CAAY,OAAZ,C;U



O1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,W  
Oz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAIQ  
T,OAoQO,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;MApQA,yC;QASW,kBAAU,oB;QAoQD,Q;QAA  
hB,iD;UAAgB,cAAhB,e;UACI,UArQuD,WAqQ7C,CAAY,OAAZ,C;UO3gVP,U;UADP,YP6gVe,WO7gVH,WP6  
gVwB,GO7gVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,WO1gVX,aP0gVgC,GO1gVhC,EAAS,M  
AAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAvQT,OAYQO,W;O;KAIRX,C;sFAYA,  
yB;MAAA,wE;MAyQA,oC;MAAA,+D;MAAA,gC;MAzQA,yC;QASW,kBAAU,oB;QAYQD,Q;QAAhB,iD;UAA  
gB,cAAhB,0B;UACI,UA1QoD,WA0Q1C,CAAY,oBAAZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hVwB,G  
O9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,WO3hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;Y  
ACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QA5QT,OA8QO,W;O;KAvRX,C;sFAYA,yB;MA  
AA,wE;MA8QA,+D;MA9QA,yD;QAUW,kBAAU,oB;QA8QD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA/QiD,  
WA+QvC,CAAY,OAAZ,C;UO9iVP,U;UADP,YPgjVe,WOhjVH,WPgjVwB,GOhjVxB,C;UACL,IAAI,aAAJ,C;Y  
ACH,aP8iVuC,gB;YAA5B,WO7iVX,aP6iVgC,GO7iVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0iVA,iB;UACA  
,IAAK,WAjRyD,cAiRrD,CAAe,OAAf,CAAJ,C;;QAJRT,OAmRO,W;O;KA7RX,C;sFAaA,yB;MAAA,wE;MAmR  
A,+D;MANRA,yD;QAUW,kBAAU,oB;QAmRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UApRiD,WAoRvC,CAA  
Y,OAAZ,C;UOhkVP,U;UADP,YPkkVe,WOkVH,WPkkVwB,GOlkVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkgVuC  
,gB;YAA5B,WO/jVX,aP+jVgC,GO/jVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP4jVA,iB;UACA,IAAK,WAtRy  
D,cAsRrD,CAAe,OAAf,CAAJ,C;;QAtRT,OAwRO,W;O;KAISX,C;uFAaA,yB;MAAA,wE;MAwRA,+D;MAxRA,  
yD;QAUW,kBAAU,oB;QAwRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzRiD,WAYRvC,CAAY,OAAZ,C;UOI  
IVP,U;UADP,YPolVe,WOpIVH,WPoIVwB,GOpIVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkiVuC,gB;YAA5B,WOjI  
VX,aPiVgC,GOjIVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8kVA,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAe,  
OAAf,CAAJ,C;;QA3RT,OA6RO,W;O;KAvSX,C;uFAaA,yB;MAAA,wE;MA6RA,+D;MA7RA,yD;QAUW,kBAA  
U,oB;QA6RD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA9RiD,WA8RvC,CAAY,OAAZ,C;UOpmVP,U;UADP,Y  
PsmVe,WOTmVH,WPsmVwB,GOtmVxB,C;UACL,IAAI,aAAJ,C;YACH,aPomVuC,gB;YAA5B,WOnmVX,aPmm  
VgC,GOnmVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgmVA,iB;UACA,IAAK,WAhSyD,cAgSrD,CAAe,OAAf,  
CAAJ,C;;QAhST,OAKSO,W;O;KA5SX,C;uFAaA,yB;MAAA,wE;MAkSA,+D;MAISA,yD;QAUW,kBAAU,oB;Q  
AkSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAnSiD,WAmSvC,CAAY,OAAZ,C;UOtnVP,U;UADP,YPwnVe,W  
OxnVH,WPwnVwB,GOxnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPsnVuC,gB;YAA5B,WOrnVX,aPqnVgC,GOrnV  
hC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPknVA,iB;UACA,IAAK,WArSyD,cAqSrD,CAAe,OAAf,CAAJ,C;;QAr  
ST,OAuSO,W;O;KAjTX,C;uFAaA,yB;MAAA,wE;MAuSA,+D;MAvSA,yD;QAUW,kBAAU,oB;QAUdSD,Q;QAAh  
B,iD;UAAgB,cAAhB,e;UACI,UAxSiD,WAwSvC,CAAY,OAAZ,C;UOxoVP,U;UADP,YP0oVe,WO1oVH,WP0o  
VwB,GO1oVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,WOvoVX,aPuoVgC,GOvoVhC,EAAS,MA  
AT,C;YACA,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WA1SyD,cA0SrD,CAAe,OAAf,CAAJ,C;;QA1ST,OA4SO,W  
;O;KAiTX,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,  
cAAhB,e;UACI,UA7SiD,WA6SvC,CAAY,OAAZ,C;UO1pVP,U;UADP,YP4pVe,WO5pVH,WP4pVwB,GO5pVx  
B,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,gB;YAA5B,WOzpVX,aPypVgC,GOzpVhC,EAAS,MAAT,C;YACA,e;  
;YAEA,c;;UPspVA,iB;UACA,IAAK,WA/SyD,cA+SrD,CAAe,OAAf,CAAJ,C;;QA/ST,OAiTO,W;O;KA3TX,C;uF  
AaA,yB;MAAA,wE;MAiTA,+D;MAjTA,yD;QAUW,kBAAU,oB;QAiTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,  
UAiTiD,WaktvC,CAAY,OAAZ,C;UO5qVP,U;UADP,YP8qVe,WO9qVH,WP8qVwB,GO9qVxB,C;UACL,IAAI,  
aAAJ,C;YACH,aP4qVuC,gB;YAA5B,WO3qVX,aP2qVgC,GO3qVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwq  
VA,iB;UACA,IAAK,WApTyD,cAoTrD,CAAe,OAAf,CAAJ,C;;QApTT,OAsTO,W;O;KAhUX,C;uFAaA,yB;MAA  
A,wE;MAStA,oC;MAAA,+D;MAAA,gC;MAiTA,yD;QAUW,kBAAU,oB;QAsTD,Q;QAAhB,iD;UAAgB,cAAhB,  
0B;UACI,UAvTiD,WAvTvC,CAAY,oBAAZ,C;UO9rVP,U;UADP,YPgsVe,WOhSvH,WPgsVwB,GOhsVxB,C;U  
ACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,WO7rVX,aP6rVgC,GO7rVhC,EAAS,MAAT,C;YACA,e;;YAEA  
,c;;UP0rVA,iB;UACA,IAAK,WazTyD,cAyTrD,CAAe,oBAAf,CAAJ,C;;QAZTT,OA2TO,W;O;KArUX,C;uFAaA,  
yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YA  
AY,OAAZ,C;UOp5UP,U;UADP,YPs5Ue,WOt5UH,WP55UwB,GOt5UxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5Uu  
C,gB;YAA5B,WOn5UX,aPm5UgC,GOn5UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg5UA,iB;UACA,IAAK,W

AAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SA  
AhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOr6UP,U;UADP,YPu6Ue,Wov6UH,WPu6U  
wB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB;YAA5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,MAA  
T,C;YACA,e;;YAEA,c;;UPi6UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MA  
AA,+D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OA  
AZ,C;UOt7UP,U;UADP,YPw7Ue,Wox7UH,WPw7UwB,GOx7UxB,C;UACL,IAAI,aAAJ,C;YACH,aPs7UuC,gB;  
YAA5B,WOr7UX,aPq7UgC,GOr7UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7UA,iB;UACA,IAAK,WAAI,O  
AAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,g  
B;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOv8UP,U;UADP,YPy8Ue,Woz8UH,WPY8UwB,G  
Oz8UxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,WOt8UX,aPs8UgC,GOt8UhC,EAAS,MAAT,C;YA  
CA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+  
D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;  
UOx9UP,U;UADP,YP09Ue,Wo19UH,WP09UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5  
B,Wov9UX,aPu9UgC,GOv9UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C  
;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAA  
gB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOz+UP,U;UADP,YP2+Ue,Wo3+UH,WP2+UwB,GO3+Ux  
B,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,Wox+UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,  
e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;M  
AAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO  
1/UP,U;UADP,YP4/Ue,Wo5/UH,WP4/UwB,GO5/UxB,C;UACL,IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,Woz  
/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,O  
AAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,  
SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3gVP,U;UADP,YP6gVe,Wo7gVH,WP6gVwB,GO7gVxB,C;UACL  
,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,Wo1gVX,aP0gVgC,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;  
UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,oC;MAAA,+D;MA  
AA,gC;MAAA,sD;QASoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,Y  
AAY,oBAAZ,C;UO5hVP,U;UADP,YP8hVe,Wo9hVH,WP8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4  
hVuC,gB;YAA5B,Wo3hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAA  
K,WAAI,oBAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAaHb,wBAAg  
B,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO9iVP,U;UADP,YPgjVe,WohjVH,WP  
gjVwB,GOhjVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8iVuC,gB;YAA5B,Wo7iVX,aP6iVgC,GO7iVhC,EAAS,MA  
AT,C;YACA,e;;YAEA,c;;UP0iVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;0F  
AkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UA  
AU,YAAY,OAAZ,C;UOhkVP,U;UADP,YPkkVe,WoIkVH,WPkkVwB,GOIkVxB,C;UACL,IAAI,aAAJ,C;YACH,  
aPkgVuC,gB;YAA5B,Wo/jVX,aP+jVgC,GO/jVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP4jVA,iB;UACA,IAA  
K,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAA  
hB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOIIVP,U;UADP,YPoIVe,W  
OplVH,WPoIVwB,GOplVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkIVuC,gB;YAA5B,WojIVX,aPilVgC,GOjIVhC,E  
AAS,MAAT,C;YACA,e;;YAEA,c;;UP8kVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;K  
AfX,C;2FakBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;  
UACI,UAAU,YAAY,OAAZ,C;UOpmVP,U;UADP,YPsmVe,WotmVH,WPsmVwB,GOtmVxB,C;UACL,IAAI,aA  
AJ,C;YACH,aPomVuC,gB;YAA5B,WOnmVX,aPmmVgC,GOnmVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgm  
VA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,  
sE;QAUoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOtnVP,  
U;UADP,YPwnVe,WoxnVH,WPwnVwB,GOxnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPsnVuC,gB;YAA5B,Worn  
VX,aPqnVgC,GOrnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPknVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAA  
J,C;;QAET,OAAO,W;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAaHb,wBAAgB,SAAhB,gB;U  
AAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOxoVP,U;UADP,YP0oVe,Wo1oVH,WP0oVwB,GO1o

VxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,WOvoVX,aPuoVgC,GOvoVhC,EAAS,MAAT,C;YAC  
A,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FAkBA,yB;  
MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,  
OAAZ,C;UO1pVP,U;UADP,YP4pVe,WO5pVH,WP4pVwB,GO5pVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,  
gB;YAA5B,WOzpVX,aPypVgC,GOzpVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPspVA,iB;UACA,IAAK,WAAI  
,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBA  
AgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5qVP,U;UADP,YP8qVe,WO9qVH  
,WP8qVwB,GO9qVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4qVuC,gB;YAA5B,WO3qVX,aP2qVgC,GO3qVhC,EA  
AS,MAAT,C;YACA,e;;YAEA,c;;UPwqVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;K  
AfX,C;2FAkBA,yB;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAA  
gB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,YAAY,oBAAZ,C;UO9rVP,U;UADP,YPgsVe,WOhsVH,WPgsVwB,  
GOhsVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,WO7rVX,aP6rVgC,GO7rVhC,EAAS,MAAT,C;Y  
ACA,e;;YAEA,c;;UP0rVA,iB;UACA,IAAK,WAAI,eAAe,oBAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;0FAkBA  
,yB;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAA6C,OAAgB,qBAAhB,oB  
AAgB,C;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;4EA  
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA  
Y,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC  
;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,I  
AAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBA  
Ab,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OA  
iVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;  
UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAU  
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA  
Y,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC  
;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,I  
AAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBA  
Ab,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OA  
iVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;  
UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAU  
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA  
Y,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC  
;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,I  
AAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBA  
Ab,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OA  
iVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;  
UAAa,WAAb,e;UACI,WAAy,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;8EAU  
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA  
Y,WAhViB,SAGVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OaiVO,W;O;KAxVX,C;0FAU  
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QAgHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WA  
Ab,e;UACI,WAAy,WajHwB,SAiHpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QajHhB,OAkH  
O,W;O;KAzHX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QAmHP,gB;QADb,YAAY  
,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WApHwB,SAoHpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,  
CAAJ,C;;QApHhB,OAqHO,W;O;KA5HX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;  
QAsHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WAvHwB,SAuHpB,EAAU,cAAV,EAAU,s  
BAAV,WAAmB,IAAnB,CAAJ,C;;QAvHhB,OAwHO,W;O;KA/HX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,  
kBAaA,eAAa,gBAAb,C;QayHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WAIHwB,SA0Hp  
B,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1HhB,OA2HO,W;O;KAIIX,C;4FAUA,yB;MAAA,  
gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QA4HP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,W  
AAy,WA7HwB,SA6HpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7HhB,OA8HO,W;O;KArI  
X,C;2FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QA+HP,gB;QADb,YAAY,C;QACZ,iD;U  
AAa,WAAb,e;UACI,WAAy,WAhIwB,SAGIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhIhB  
,OaiIO,W;O;KAxIX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QakIP,gB;QADb,YA  
AY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WAnIwB,SAmIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAn  
B,CAAJ,C;;QAnIhB,OAoIO,W;O;KA3IX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAaA,eAAa,gBAAb,C;  
QaqIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WAtIwB,SAsIpB,EAAU,cAAV,EAAU,sBA

AV,WAAmB,IAAnB,CAAJ,C;;QAtIhB,OAuIO,W;O;KA9IX,C;4FAUA,yB;MAAA,gE;MAuIA,oC;MAAA,gC;M  
AvIA,uC;QAOW,kBAaA,eAAa,gBAAb,C;QAwIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UACI,WAA  
Y,WAZIwB,SAYIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QAZIhB,OA0IO,W;O;KAjJX,C;wG  
AUA,yB;MAAA,+D;MAAA,uC;QAOW,kBAaOb,gB;QA8iEd,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA  
piEmC,U;UAAA,cAVQ,SAUR,EAoiET,cApiES,EAoiET,sBApiES,WAOiEA,IApiEA,W;YAA6C,6B;;QAVhF,OA  
WO,W;O;KAIBX,C;4GAUA,yB;MAAA,oD;QA2iEiB,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UApiEmC,  
U;UAAA,yBAoiET,cApiES,EAoiET,sBApiES,WAOiEA,IApiEA,W;YAA6C,6B;;QACHF,OAAO,W;O;KARX,C;8  
FAWA,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA  
Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;gGAGX,6C;MAQiB,U  
ACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAA  
V,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAA  
Y,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WA  
AmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,S  
AAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;  
MACHB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA  
,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;g  
GAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA  
Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;gGAGX,6C;MAQiB,U  
ACiB,M;MAF9B,YAAY,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAA  
V,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;+FAGX,6C;MAQiB,UACiB,M;MAF9B,YAA  
Y,C;MACZ,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,WAAU,cAAV,EAAU,sBAAV,WA  
AmB,IAAnB,CAAJ,C;;MACHB,OAAO,W;K;gGAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAQiB,UACiB,M;Q  
AF9B,YAAY,C;QACZ,wBAaA,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,WAA,Y,WAAI,WAAU,cAAV,EA  
AU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QACHB,OAAO,W;O;KAVX,C;0FAaA,yB;MAAA,+D;MAAA,uC;QAOW  
W,kBAaA,gB;QAK2DJ,Q;QAaHb,iD;UAAgB,cAAhB,e;UA11DqB,U;UAAA,cARe,SAQf,CA01DQ,OA11DR,W;  
YAAc,6B;;QAR3D,OASO,W;O;KAhBX,C;8FAUA,yB;MAAA,oD;QA+1DoB,Q;QAaHb,iD;UAAgB,cAAhB,e;  
UA11DqB,U;UAAA,wBA01DQ,OA11DR,W;YAAc,6B;;QAC3D,OAAO,W;O;KANX,C;gFASA,6C;MAKiB,Q;  
MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,  
W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IAA  
V,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QAC  
I,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;  
QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,6C;MAKiB,  
Q;MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAA  
O,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IA  
AV,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;QAAa,WAAA,SAAb,M;QA  
CI,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAaA,SAAb,gB;  
QAAa,WAAA,SAAb,M;QACI,WAA,Y,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;kFAGX,yB;MAAA,o  
C;MAAA,gC;MAAA,oD;QAKiB,Q;QAAb,wBAaA,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,WAA,Y,WAA  
I,UAAU,iBAAV,CAAJ,C;;QACHB,OAAO,W;O;KAPX,C;IAe4B,0C;MAAA,mB;QAAE,2C;O;K;IAL9B,8B;MAK  
I,OAAO,qBAaiB,2BAajB,C;K;IAQiB,4C;MAAA,mB;QAAE,+C;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAaj  
B,C;K;IAQiB,4C;MAAA,mB;QAAE,gD;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAQiB,4C;MAAA,  
mB;QAAE,8C;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAQiB,4C;MAAA,mB;QAAE,+C;O;K;IAL9  
B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAQiB,4C;MAAA,mB;QAAE,gD;O;K;IAL9B,gC;MAKI,OAAO,qBA  
AiB,6BAajB,C;K;IAQiB,4C;MAAA,mB;QAAE,iD;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAQiB,  
4C;MAAA,mB;QAAE,kD;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAQiB,4C;MAAA,mB;QAAE,+  
C;O;K;IAL9B,gC;MAKI,OAAO,qBAaiB,6BAajB,C;K;IAGX,6B;MASI,OAA2B,SAaf,aAAL,SAAK,CAAe,C;K;  
IAG/B,+B;MAQI,OAA2B,SAaf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAaf,eAAL,SAAK,CAAe,C  
;K;IAG/B,+B;MAQI,OAA2B,SAaf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAaf,eAAL,SAAK,CAA

e,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,C  
AAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SA  
K,CAAe,C;K;0FAG/B,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QAC  
X,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAL,GAAL,C  
AAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,s  
C;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAA  
U,SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;K  
AhBX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,w  
BAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C  
R,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;  
QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,  
SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAh  
BX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBA  
AU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C  
;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA  
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA  
AS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX  
,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAA  
U,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;  
YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA  
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA  
AS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX  
,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAA  
U,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;  
YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA  
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA  
AS,CAAT,C;UACV,IAAI,GAAL,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,CAAJ,C;;QAEb,OAAO,I;O;KAhBX  
,C;4FAMBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBA  
AW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAV,UAAU,SAAV,O;UACI,UAAU,SAAS,cAAT,C;UACV,IAAI,G  
AAI,WAAL,GAAL,CAAR,C;YACI,IAAK,WAAL,cAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;IAmBA,qC;MAQI,UAAe,  
aAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,  
C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YA  
AJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAA  
U,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;M  
ACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;  
K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;M  
AQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eA  
AL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,oC;MAMI,UAAe,aAAL,SAAK,C;  
MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,  
GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,  
KAAP,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MA  
CJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;  
K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,sC;M  
AMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,e  
AAL,SAAK,C;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C  
;MACX,YAAJ,GAAL,EAAU,KAAP,C;MACJ,OAAO,G;K;IAGX,iC;MAMI,OAAO,wBAAa,qBAAiB,YAAY,gB  
AAZ,CAAjB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;K;IAGX,  
mC;MAMI,OAAO,0BAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAA  
mB,YAAY,gBAAZ,CAAnB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAY,gBAAZ,CAApB,CA  
Ab,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;K;IAGX,mC;MAMI,OAAO  
,0BAAa,qBAAaB,YAAY,gBAAZ,CAATB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAuB,YAAY,gBAAZ  
,CAAvB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CA  
ApB,CAAb,C;K;IAGX,iC;MAUI,UAAe,aAAL,SAAK,C;MACX,OAAJ,GAAL,EAAO,KAAP,C;MACJ,OAAO,G;

K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC; MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe, eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK, C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OA AJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EA AO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C; MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO, G;K;4EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UA AU,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB, gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I ;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAA U,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB ;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K; 8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,O AAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q AAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8E AGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OA AV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA AGB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;MACtD,OAAO,I;K;8EAG X,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SA AhB,O;UAAsB,IAAI,CAAC,UAAU,oBAAV,CAAL,C;YAAyB,OAAO,K;QActD,OAAO,I;O;KAPX,C;IAUA,w B;MAMI,OAAO,EA5mJA,qBAAQ,CA4mJR,C;K;IAGX,0B;MAMI,OAAO,EA7mJA,qBAAQ,CA6mJR,C;K;IAG X,0B;MAMI,OAAO,EA9mJA,qBAAQ,CA8mJR,C;K;IAGX,0B;MAMI,OAAO,EA/mJA,qBAAQ,CA+mJR,C;K;I AGX,0B;MAMI,OAAO,EAhnJA,qBAAQ,CagnJR,C;K;IAGX,0B;MAMI,OAAO,EAjnJA,qBAAQ,CAinJR,C;K;I AGX,0B;MAMI,OAAO,EAInJA,qBAAQ,CAknJR,C;K;IAGX,0B;MAMI,OAAO,EAnnJA,qBAAQ,CAnnJR,C;K;I AGX,0B;MAMI,OAAO,EApnJA,qBAAQ,CAonJR,C;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q AAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO,K;K;8EAGX,g C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;U AAwB,OAAO,I;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SA AhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;M AAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;; MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,I AAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB, SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO, K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OA AV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA AGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;MACrD,OAAO,K;K;+EAGX,yB ;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAaHb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O ;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,I;QACrD,OAAO,K;O;KAPX,C;gFAUA,qB;MAKI,OA AO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFA GX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI, OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAh B,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;kFAGX ,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU, OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB, SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K; mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI ,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,w



QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EA AwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAAY,w B;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,E AAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAAY, wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV, EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAA Y,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAA V,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,oC;MAAA,gD;QAYoC,Q; QAHhC,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,sBAAI,YAAJ,EAA I,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;sGAiBA,yB;MAAA,8D;MAAA,gD;QAUI,Y AAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB,UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAU I,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB,UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;Q AU I,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB,UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,g D;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB,UA AI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA ,gD;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB,U AAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAA A,gD;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAiB, UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MA AAA,gD;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,EAAi B,UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D; MAAA,gD;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KA AV,E AAiB,UAAI,KA AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8 D;MAAA,oC;MAAA,gD;QAUI,YAAAY,wB;QACZ,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UA AU,KA AV,EAAiB,sBAAI,KA AJ,EAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;oFAmBA ,6B;MAIoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B ;MAIoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;M AIoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAI oB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB, Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q; MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;M AAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAA hB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,yB;MAAA,oC;MAAA, gC;MAAA,oC;QAIoB,Q;QAAhB,wBAAGB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,OAAO,oBA AP,C;;O;KAJ1B,C;kGAOA,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SA Ab,M;QAAMB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YA AY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB, C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAM B,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MAC Z,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAG vB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMB,QAAO,c AAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SA Ab,gB;QAAa,WAAA,SAAb,M;QAAMB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOi



B,UAAa,M;MAD1B,YAA Y,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAA Y,C;MACZ,wBAAa,SAAb,gB;QAA a,WAAA,SAAb,M;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,yB;MAAA,oC;MAAA ,gC;MAAA,oC;QAOiB,UAAa,M;QAD1B,YAA Y,C;QACZ,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UA AmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;O;KAPvB,C;IAUA,wB;MAIL,OAAO,oB;K;IAGX,0B;M AII,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,s B;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;gFAGX,yB;MAsDA,8D;MAtdA,sC;QAGW,sB;;UA0DP,IAhxLO,qBAAQ,CA gxLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9DmB,QA8DJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb, M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjEe,QAiEP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;c ACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvEP,yB;O;KAHJ,C;kFAMA,yB;MAuEA,8D;MAvEA,s C;QAGW,sB;;UA2EP,IA/xLO,qBAAQ,CA+xLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UA Cd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/EmB,QA+EJ,CAAS,O AAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAIFe,QAkFP,CAAS,CAAT, C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAxFP,yB;O;K AHJ,C;kFAMA,yB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA4FP,IA9yLO,qBAAQ,CA8yLf,C;YAAe,qBAAO,I;Y AAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;Y AAP,uB;WACpB,eAhGmB,QAgGJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,C AAL,C;YACR,QAnGe,QAmGP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,W AAW,C;;UAGnB,qBAAO,O;;;QAZGP,yB;O;KAHJ,C;kFAMA,yB;MAyGA,8D;MAzGA,sC;QAGW,sB;;UA6GP,I A7zLO,qBAAQ,CA6zLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACr B,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAjHmB,QAiHJ,CAAS,OAAT,C;UACf,aAAU,C AAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QApHe,QAoHP,CAAS,CAAT,C;YACR,IAAI,2BAA W,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA1HP,yB;O;KAHJ,C;kFAMA,yB;M A0HA,8D;MA1HA,sC;QAGW,sB;;UA8HP,IA50LO,qBAAQ,CA40Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc, UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAll mB,QAkIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArIe,Q AqIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO, O;;;QA3IP,yB;O;KAHJ,C;kFAMA,yB;MA2IA,8D;MA3IA,sC;QAGW,sB;;UA+IP,IA3ILO,qBAAQ,CA21Lf,C;Y AAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAA oB,qBAAO,O;YAAP,uB;WACpB,eAnJmB,QAmJJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI, QAAQ,UAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAA U,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KAHJ,C;kFAMA,yB;MA4JA,8D;MA5JA,sC;QAGW,s B;;UAGpK,IA12LO,qBAAQ,CA02Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAq B,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApKmB,QAoKJ,CAAS,OAAT,C;U ACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvKe,QAuKP,CAAS,CAAT,C;YAC R,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7KP,yB;O;KAHJ,C; kFAMA,yB;MA6KA,8D;MA7KA,sC;QAGW,sB;;UAIpL,IAz3LO,qBAAQ,CAy3Lf,C;YAAe,qBAAO,I;YAAP,uB ;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB; WACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;Y ACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;; UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;kFAMA,yB;MA8LA,8D;MA9LA,sC;QAGW,sB;;UAkMP ,IAx4LO,qBAAQ,CAw4Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UA CrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtMmB,QAsMJ,CAAS,OBAAAT,C;UACf,aAA U,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzMe,QAyMP,CAAS,cAAT,C;YACR,IAAI,2 BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/MP,yB;O;KAHJ,C;4FAMA,y B;MAAA,8D;MAAA,sC;QAOL,IAhxLO,qBAAQ,CAGxLf,C;YAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QAC

d,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA/xLO,qBAAQ,CA+xLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA9yLO,qBAAQ,CA8yLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA7zLO,qBAAQ,CA6zLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA50LO,qBAAQ,CA40Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA31LO,qBAAQ,CA21Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA12LO,qBAAQ,CA02Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,oC;MAAA,sC;QAOI,IAx4LO,qBAAQ,CAw4Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAaQb,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sE;MAAA,8D;MkBhnbA,iB;MIBgnbA,sC;QAeiB,Q;QAFb,IAr+LO,qBAAQ,CAq+Lf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBznbg,MAAO,KIBynbO,QkBznbP,EIBynbiB,CkBznbjB,C;;QIB2nbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkbtobA,iB;MIBsobA,sC;QAeiB,Q;QAFb,IA/LO,qBAAQ,CAM/Lf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/obG,MAAO,KIB+obO,QkB/obP,EIB+obiB,CkB/objB,C;;QIBipbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5pbA,iB;MIB4pbA,sC;QAeiB,Q;QAFb,IAjgMO,qBAAQ,CAigMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBBrqbG,MAAO,KIBqqbO,QkBBrqbP,EIBqqbiB,CkBBrqbjB,C;;QIBuqbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlrbA,iB;MIBkrrA,sC;QAeiB,Q;QAFb,IA/gMO,qBAAQ,CA+gMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3rbG,MAAO,KIB2rbO,QkB3rbP,EIB2rbiB,CkB3rbjB,C;;QIB6rbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxsbA,iB;MIBwsbA,sC;QAeiB,Q;QAFb,IA7hMO,qBAAQ,CA6hMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,

CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjtbG,MAAO,KIBitbO,QkBjtbP,ElBitbB,CkBjtbjB,C;;QIBmtbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9tbA,iB;MIB8tbA,sC;QAeiB,Q;QAFb,IA3iMO,qBAAQ,CA2iMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvubG,MAAO,KIBuubO,QkBvubP,ElBuubiB,CkBvubjB,C;;QIByubd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvaA,iB;MIBovbA,sC;QAeiB,Q;QAFb,IAzjMO,qBAAQ,CayjMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7vbG,MAAO,KIB6vbO,QkB7vbP,ElB6vbiB,CkB7vbjB,C;;QIB+vbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1wbA,iB;MIB0wbA,sC;QAeiB,Q;QAFb,IAvkMO,qBAAQ,CAukMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnxbG,MAAO,KIBmxbO,QkBnxbP,ElBmxbiB,CkBnxbjB,C;;QIBqxbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBhybA,iB;MIBgybA,sC;QAeiB,Q;QAFb,IArlMO,qBAAQ,CAqlMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBzybG,MAAO,KIBzybO,QkBzybP,ElByybiB,CkBzybjB,C;;QIB2ybd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBj0bA,iB;MIBi0bA,sC;QAeiB,Q;QAFb,IA3qMO,qBAAQ,CA2qMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB10bG,MAAO,KIB00bO,QkB10bP,ElB00biB,CkB10bjB,C;;QIB40bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBv1bA,iB;MIBu1bA,sC;QAeiB,Q;QAFb,IAzrMO,qBAAQ,CAyrMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh2bG,MAAO,KIBg2bO,QkBh2bP,ElBg2biB,CkBh2bjB,C;;QIBk2bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB72bA,iB;MIB62bA,sC;QAeiB,Q;QAFb,IAvsMO,qBAAQ,CAusMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBt3bG,MAAO,KIBs3bO,QkBt3bP,ElBs3biB,CkBt3bjB,C;;QIBw3bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBn4bA,iB;MIBm4bA,sC;QAeiB,Q;QAFb,IArtMO,qBAAQ,CAqtMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB54bG,MAAO,KIB44bO,QkB54bP,ElB44biB,CkB54bjB,C;;QIB84bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBz5bA,iB;MIBy5bA,sC;QAeiB,Q;QAFb,IANuMO,qBAAQ,CAmuMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB16bG,MAAO,KIBk6bO,QkB16bP,ElBk6biB,CkB16bjB,C;;QIBo6bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB/6bA,iB;MIB+6bA,sC;QAeiB,Q;QAFb,IAjvMO,qBAAQ,CAivMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx7bG,MAAO,KIBw7bO,QkBx7bP,ElBw7biB,CkBx7bjB,C;;QIB07bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB8bA,iB;MIBq8bA,sC;QAeiB,Q;QAFb,IA/vMO,qBAAQ,CA+vMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB98bG,MAAO,KIB88bO,QkB98bP,ElB88biB,CkB98bjB,C;;QIBg9bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB39bA,iB;MIB29bA,sC;QAeiB,Q;QAFb,IA7wMO,qBAAQ,CA6wMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp+bG,MAAO,KIBo+bO,QkBp+bP,ElBo+biB,CkBp+bjB,C;;QIBs+bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBj/bA,iB;MIBi/bA,sC;QAeiB,Q;QAFb,IA3xMO,qBAAQ,CA2xMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkB1/bG,MAAO,KIB0/bO,QkB1/bP,ElB0/biB,CkB1/bjB,C;;QIB4/bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA/2MO,qBAAQ,CA+2Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KA AJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA73MO,qBAAQ,CA63Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S

AAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn BX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA34MO,qBAAQ,CA24Mf,C;UAAe,MAA M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA K,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFA sBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAz5MO,qBAAQ,CAy5Mf,C;UAAe,MAAM,6B;QAC rB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,C AAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;M AAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAv6MO,qBAAQ,CAu6Mf,C;UAAe,MAAM,6B;QACrB,eAAe,S AAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;U ACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE; MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAr7MO,qBAAQ,CAq7Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UA AK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAA I,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D ;MAAA,sC;QAaiB,Q;QAFb,IA8MO,qBAAQ,Ca8Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL ,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW, CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,s C;QAaiB,Q;QAFb,IAj9MO,qBAAQ,CAi9Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C; QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,K AAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA, sC;QAaiB,Q;QAFb,IA/9MO,qBAAQ,CA+9Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT, C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX, KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;4FAsBA,yB;MAAA,8D;MkBlscA,iB;MIBkscA,sC;Q AaiB,Q;QAFb,IArjNO,qBAAQ,CAqjNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+ B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzscG,MAAO,KIByscO,QkBz scP,ElBysciB,CkBzscjB,C;;QIB2scd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBttcA,iB;MIBstcA,sC;QA aiB,Q;QAFb,IAjkNO,qBAAQ,CAikNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B; QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7tcG,MAAO,KIB6tcO,QkB7tc P,ElB6tcB,CkB7tcjB,C;;QIB+tcD,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1ucA,iB;MIB0ucA,sC;QAa iB,Q;QAFb,IA7kNO,qBAAQ,CA6kNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B; QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjvcG,MAAO,KIBivcO,QkBjvc P,ElBivciB,CkBjvcjB,C;;QIBmvcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB9vcA,iB;MIB8vcA,sC;QA aiB,Q;QAFb,IAzI NO,qBAAQ,CAylNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B; QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrcG,MAAO,KIBqwcO,QkBrc P,ElBqwcB,CkBrcjB,C;;QIBuwcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1xcA,iB;MIBkxcA,sC ;QAaiB,Q;QAFb,IArmNO,qBAAQ,CAqmNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QA CF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzxcG,MAAO,KIByxcO, QkBzxcP,ElByxcB,CkBzxcjB,C;;QIB2xcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBtycA,iB;MIBsycA ,sC;QAaiB,Q;QAFb,IAjnNO,qBAAQ,CAinNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QA CF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ycG,MAAO,KIB6ycO, QkB7ycP,ElB6ycB,CkB7ycjB,C;;QIB+ycd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1zcA,iB;MIB0zc A,sC;QAaiB,Q;QAFb,IA7nNO,qBAAQ,CA6nNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C; QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj0cG,MAAO,KIBi0c O,QkBj0cP,ElBi0ciB,CkBj0cjB,C;;QIBm0cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB90cA,iB;MIB80 cA,sC;QAaiB,Q;QAFb,IAzoNO,qBAAQ,CAyoNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C ;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrlcG,MAAO,KIBq 1cO,QkBrlcP,ElBqlciB,CkBrlcjB,C;;QIBu1cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,oC;MAAA,8D;MkB12 cA,iB;MIBk2cA,sC;QAaiB,Q;QAFb,IArpNO,qBAAQ,CAqpNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,C AAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBz2c

G,MAAO,KIBy2cO,QkBz2cP,ElBy2ciB,CkBz2cjB,C;;QIB22cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj4cA,iB;MIBi4cA,sC;QAaiB,Q;QAFb,IAzuNO,qBAAQ,CAyuNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx4cG,MAAO,KIBw4cO,QkBx4cP,ElBw4ciB,CkBx4cjB,C;;QIB04cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBr5cA,iB;MIBq5cA,sC;QAaiB,Q;QAFb,IArvNO,qBAAQ,CAqvNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB55cG,MAAO,KIB45cO,QkB55cP,ElB45ciB,CkB55cjB,C;;QIB85cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBz6cA,iB;MIBy6cA,sC;QAaiB,Q;QAFb,IAjwNO,qBAAQ,CAiwNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh7cG,MAAO,KIBg7cO,QkBh7cP,ElBg7ciB,CkBh7cjB,C;;QIBk7cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB77cA,iB;MIB67cA,sC;QAaiB,Q;QAFb,IA7wNO,qBAAQ,CA6wNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp8cG,MAAO,KIBo8cO,QkBp8cP,ElBo8ciB,CkBp8cjB,C;;QIBs8cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBj9cA,iB;MIBi9cA,sC;QAaiB,Q;QAFb,IAzxNO,qBAAQ,CAyxNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx9cG,MAAO,KIBw9cO,QkBx9cP,ElBw9ciB,CkBx9cjB,C;;QIB09cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBr+cA,iB;MIBq+cA,sC;QAaiB,Q;QAFb,IAryNO,qBAAQ,CAqyNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5+cG,MAAO,KIB4+cO,QkB5+cP,ElB4+ciB,CkB5+cjB,C;;QIB8+cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBz/cA,iB;MIBy/cA,sC;QAaiB,Q;QAFb,IAjzNO,qBAAQ,CAizNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhgdG,MAAO,KIBggdO,QkBhgdP,ElBggdiB,CkBhgdjB,C;;QIBkggd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB7gdA,iB;MIB6gdA,sC;QAaiB,Q;QAFb,IA7zNO,qBAAQ,CA6zNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBphdG,MAAO,KIBohdO,QkBphdP,ElBohdiB,CkBphdjB,C;;QIBshdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MkBjidA,iB;MIBiidA,sC;QAaiB,Q;QAFb,IAz0NO,qBAAQ,CAy0Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxidG,MAAO,KIBwidO,QkBxidP,ElBwidiB,CkBxidjB,C;;QIB0idd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA35NO,qBAAQ,CA25Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAv6NO,qBAAQ,CAu6Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA7NO,qBAAQ,CA7Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA8NO,qBAAQ,CA8Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9NO,qBAAQ,CA9Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA+nNO,qBAAQ,CA+nNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA+nNO,qBAAQ,CA+nNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QA

WiB,Q;QAFb,IA/+NO,qBAAQ,CA++Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+  
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;Y  
ACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,  
IA3/NO,qBAAQ,CA2/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAA  
U,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,  
C;;QAGnB,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAj1OO,qBAA  
Q,CAi1Of,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;  
UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC  
,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAa  
iB,Q;QAFb,IA/1OO,qBAAQ,CA+1Of,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+  
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EA  
akB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;  
MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA7mOO,qBAAQ,CA6mOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,U  
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA  
AI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn  
BX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA3nOO,qBAAQ,CA2nOf,C;UAAe,MAA  
M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA  
K,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,  
C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAzoOO,qBA  
AQ,CAyoOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,i  
B;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAA  
kC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;Q  
AaiB,Q;QAFb,IAvpOO,qBAAQ,CAupOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QAC  
F,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,E  
AAkB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,s  
E;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IArqOO,qBAAQ,CAqqOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,U  
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA  
AI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn  
BX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IANrOO,qBAAQ,CAMrOf,C;UAAe,MAA  
M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA  
K,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,  
C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA  
jsOO,qBAAQ,CAisOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAA  
U,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,C  
AAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;MAAA,kD;Q  
AWiB,Q;QAFb,IArxOO,qBAAQ,CAqxOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,  
+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EA  
AkB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8  
D;MAAA,kD;QAWiB,Q;QAFb,IAjyOO,qBAAQ,CAiyOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,C  
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SA  
AQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA  
,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA7yOO,qBAAQ,CA6yOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,U  
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA  
AI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAj  
BX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAzzOO,qBAAQ,CAyzOf,C;UAAe,OAAO,I;QACtB,  
eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA  
T,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,O  
AAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAr0OO,qBAAQ,CAq0Of,C;UAAe,O

AAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UA  
AK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAA  
W,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAj100,qBAAQ,CAi  
1Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QA  
AQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C  
;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA7100  
,qBAAQ,CA61Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAA  
V,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,G  
AAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,  
Q;QAFb,IAz200,qBAAQ,CAy2Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;Q  
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,  
CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,oC;MA  
AA,8D;MAAA,kD;QAWiB,Q;QAFb,IAr300,qBAAQ,CAq3Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,C  
AAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UA  
AW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;I  
AoBA,8B;MASiB,Q;MAFb,IAv800,qBAAQ,CAu8Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MAC  
G,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB3leG,MAAO,KIB2leE,GkB3leF,EIB2le  
O,CkB3leP,C;;MIB6led,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAv900,qBAAQ,CAu9Of,C;QAAe,OAAO,I;MA  
CtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBtne  
G,MAAO,KIBsneE,GkBtneF,EIBsneO,CkBtneP,C;;MIBwned,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAr+00,q  
BAAQ,CAq+Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,Q  
AAQ,UAAK,CAAL,C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;M  
AOiB,Q;MAFb,IA3+00,qBAAQ,CA2+Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,  
aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAA  
O,G;K;IAGX,gC;MAOiB,Q;MAFb,IAj/00,qBAAQ,CAi/Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;  
MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM  
,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAv/00,qBAAQ,CAu/Of,C;QAAe,OAAO,I;MACtB,UAAU,  
UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,  
C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA7/00,qBAAQ,CA6/Of,C;QAAe,OAAO,I  
;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI  
,oBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IArPO,qBAAQ,C  
AqgPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UA  
AK,CAAL,C;QACR,MkB5seG,MAAO,KIB4seE,GkB5seF,EIB4seO,CkB5seP,C;;MIB8sed,OAAO,G;K;IAGX,gC;  
MASiB,Q;MAFb,IA7gPO,qBAAQ,CA6gPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,  
aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBjteG,MAAO,KIBiteE,GkBjteF,EIBiteO,CkBjteP,C;;  
MIBmtd,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA3gPO,qBAAQ,CA2gPf,C;QAAe,OAAO,I;MACtB,UAAU,U  
AAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C  
;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,wC;MAGI,OAAO,yBAAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2B  
AAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,  
0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2BA  
Ac,UAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAd,C;K;IAGX,8  
C;MAOiB,Q;MAFb,IA/oPO,qBAAQ,CA+oPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MA  
Ab,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GA  
A6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IArPO,qBAAQ,CAqpPf,C;  
QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL  
,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAA  
O,G;K;IAGX,gD;MAOiB,Q;MAFb,IA3pPO,qBAAQ,CA2pPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;  
MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CA

Ab,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAjqPO,qBA  
AQ,CAiqPf,C;QAAe,OAAO,I;MACTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,  
UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;  
MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvqPO,qBAAQ,CAuqPf,C;QAAe,OAAO,I;MACTb,UAAU,UA  
AK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GA  
AR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb  
,IA7qPO,qBAAQ,CA6qPf,C;QAAe,OAAO,I;MACTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB  
;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAA  
oC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IANrPO,qBAAQ,CAMrPf,C;QAAe,OAAO,I;MA  
CTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UA  
AW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;M  
AOiB,Q;MAFb,IAZrPO,qBAAQ,CAyrPf,C;QAAe,OAAO,I;MACTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,a  
AAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,  
CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/rPO,qBAAQ,CA+rPf,C;QAAe  
,OAAO,I;MACTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QA  
CR,IAAI,UAAW,SAAQ,gBAAR,EAAa,cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;  
K;IAGX,wB;MAII,OAAO,oB;K;IAGX,0B;MAII,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,O  
AAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;  
MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;gFAGX,yB;MA5DA,8D;MatD  
A,sC;QAGW,sB;;UA0DP,IAN4PO,qBAAQ,CAM4Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;  
UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9DmB,QA8DJ,CA  
AS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjEe,QAiEP,CAAS,C  
AAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvEP,yB  
;O;KAHJ,C;kFAMA,yB;MAuEA,8D;MAvEA,sC;QAGW,sB;;UA2EP,IAI5PO,qBAAQ,CAk5Pf,C;YAAe,qBAAO,  
I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O  
;YAAP,uB;WACpB,eA/EmB,QA+EJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,  
CAAL,C;YACR,QAIfe,QAkFP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,W  
AAW,C;;UAGnB,qBAAO,O;;;QAxFP,yB;O;KAHJ,C;kFAMA,yB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA4FP,I  
Aj6PO,qBAAQ,CAi6Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB  
,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAhGmB,QAqGJ,CAAS,OAAT,C;UACf,aAAU,C  
AAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnGe,QAmGP,CAAS,CAAT,C;YACR,IAAI,2BA  
AW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAzGP,yB;O;KAHJ,C;kFAMA,yB;  
MAyGA,8D;MAzGA,sC;QAGW,sB;;UA6GP,IAh7PO,qBAAQ,CAg7Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAA  
c,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAj  
HmB,QAiHJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAph  
e,QAoHP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBA  
AO,O;;;QA1HP,yB;O;KAHJ,C;kFAMA,yB;MA0HA,8D;MA1HA,sC;QAGW,sB;;UA8HP,IA/7PO,qBAAQ,CA+7  
Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,  
C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAllmB,QAkIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;Y  
ACI,QAAQ,UAAK,CAAL,C;YACR,QArJe,QAqIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,  
UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA3IP,yB;O;KAHJ,C;kFAMA,yB;MA2IA,8D;MA3IA,sC;QAG  
W,sB;;UA+IP,IA98PO,qBAAQ,CA88Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBA  
AqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnJmB,QAmJJ,CAAS,OAAT,C;  
UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAte,QAsJP,CAAS,CAAT,C;YACR  
,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KAHJ,C;kF  
AMA,yB;MA4JA,8D;MA5JA,sC;QAGW,sB;;UAqKP,IA79PO,qBAAQ,CA69Pf,C;YAAe,qBAAO,I;YAAP,uB;W  
ACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;W  
ACpB,eApKmB,QAoKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;Y



ACR,QAvKe,QAuKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;  
UAGnB,qBAAO,O;;;QA7KP,yB;O;KAHJ,C;kFAMA,yB;MA6KA,8D;MA7KA,sC;QAGW,sB;;UAI LP,IA5+PO,q  
BAAQ,CA4+Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,c  
AAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OA  
Aa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAA  
X,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;kFAMA,yB;MA8LA,8  
D;MAAA,oC;MA9LA,sC;QAGW,sB;;UAKMP,IA3/PO,qBAAQ,CA2/Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cA  
Ac,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,e  
AtMmB,QAsMJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,Q  
AzMe,QAyMP,CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,  
qBAAO,O;;;QA/MP,yB;O;KAHJ,C;4FAMA,yB;MAAA,8D;MAAA,sC;QAOI,IA4PO,qBAAQ,CAM4Pf,C;UAAe  
,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,  
OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UA  
CR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,O  
AAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA15PO,qBAAQ,CAk5Pf,C;UAAe,OAAO,I;QAC  
tB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC  
3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SA  
AS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KA  
pBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IAj6PO,qBAAQ,CAi6Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAA  
K,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SA  
AS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;  
UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAu  
BA,yB;MAAA,8D;MAAA,sC;QAOI,IAh7PO,qBAAQ,CAg7Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;  
QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;  
QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,  
2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAA  
A,8D;MAAA,sC;QAOI,IA7PO,qBAAQ,CA+7Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAA  
qB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU  
,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CA  
AX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA  
,sC;QAOI,IA98PO,qBAAQ,CA88Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SA  
AK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OA  
Aa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;  
YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA  
79PO,qBAAQ,CA69Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACr  
B,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;  
UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAA  
U,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA5+PO,qBA  
AQ,CA4+Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cA  
Aa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAA  
Q,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,  
WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,oC;MAAA,sC;QAOI,IA3/PO,qBAA  
Q,CA2/Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,  
CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,  
UAAK,CAAL,C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,W  
AAW,C;;QAGnB,OAAO,O;O;KApBX,C;gFAuBA,yB;MAAA,sE;MAAA,8D;MkB/gfA,iB;MIB+gfA,sC;QAeiB,Q  
;QAFb,IAxlQO,qBAAQ,CAwlQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACf,+B;Q  
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBXhfG,MAAO,KIBwhfO,QkBXhfP

,ElBwhfiB,CkBxhfbjB,C;;QIB0hfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBrifA,iB;MIBqifA,sC;QAeiB,Q;QAFb,IAtmQO,qBAAQ,CAsmQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9ifG,MAAO,KIB8ifO,QkB9ifP,ElB8ifB,CkB9ifjB,C;;QIBgdfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3jfA,iB;MIB2jfA,sC;QAeiB,Q;QAFb,IApnQO,qBAAQ,CAonQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpkfG,MAAO,KIBokfO,QkBpkfP,ElBokfiB,CkBpkfjB,C;;QIBskfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBjlfA,iB;MIBilfA,sC;QAeiB,Q;QAFb,IAloQO,qBAAQ,CAkoQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1lfG,MAAO,KIB0lfo,QkB1lfP,ElB0lfiB,CkB1lfjB,C;;QIB4lfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBvmfA,iB;MIBumfA,sC;QAeiB,Q;QAFb,IAhpQO,qBAAQ,CAGpQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhnfG,MAAO,KIBgnfO,QkBhnfP,ElBgnfiB,CkBhnfjB,C;;QIBknfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB7nfA,iB;MIB6nfA,sC;QAeiB,Q;QAFb,IA9pQO,qBAAQ,CA8pQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBtofG,MAAO,KIBsofO,QkBtofP,ElBsofiB,CkBtofiB,C;;QIBwofd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBnfpA,iB;MIBmpfA,sC;QAeiB,Q;QAFb,IA5qQO,qBAAQ,CA4qQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5pfG,MAAO,KIB4pfO,QkB5pfP,ElB4pfiB,CkB5pfjB,C;;QIB8pfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBzqfA,iB;MIByqfA,sC;QAeiB,Q;QAFb,IA1rQO,qBAAQ,CA0rQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1rfG,MAAO,KIBkrfO,QkB1rfP,ElBkrfiB,CkB1rfjB,C;;QIBorfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkB/rfA,iB;MIB+rfA,sC;QAeiB,Q;QAFb,IAxsQO,qBAAQ,CAwsQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxsfG,MAAO,KIBwsfO,QkBxsfP,ElBwsfiB,CkBxsfjB,C;;QIB0sfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhufA,iB;MIBgufA,sC;QAeiB,Q;QAFb,IA9xQO,qBAAQ,CA8xQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzufG,MAAO,KIByufO,QkBzufP,ElByufiB,CkBzufjB,C;;QIB2ufd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtvfA,iB;MIBsvfA,sC;QAeiB,Q;QAFb,IA5yQO,qBAAQ,CA4yQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/vfG,MAAO,KIB+vfO,QkB/vfP,ElB+vfB,CkB/vfjB,C;;QIBiwfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5wfA,iB;MIB4wfA,sC;QAeiB,Q;QAFb,IA1zQO,qBAAQ,CA0zQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBbrxfG,MAAO,KIBqxfO,QkBbrxfP,ElBqxfiB,CkBbrxfjB,C;;QIBuxfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBlyfA,iB;MIBkyfA,sC;QAeiB,Q;QAFb,IAx0QO,qBAAQ,CAw0Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3yfG,MAAO,KIB2yfO,QkB3yfP,ElB2yfiB,CkB3yfiB,C;;QIB6yfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxzfA,iB;MIBwzfA,sC;QAeiB,Q;QAFb,IA1lQO,qBAAQ,CAslQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj0fG,MAAO,KIBi0fO,QkBj0fP,ElBi0fiB,CkBj0fiB,C;;QIBm0fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB90fA,iB;MIB80fA,sC;QAeiB,Q;QAFb,IAp2QO,qBAAQ,CAo2Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv1fG,MAAO,KIBu1fO,QkBv1fP,ElBu1fiB,CkBv1fiB,C;;QIBylfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp2fA,iB;MIBo2fA,sC;QAeiB,Q;QAFb,IA13QO,qBAAQ,CAk3Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB72fG,MAAO,KIB62fO,QkB72fP,ElB62fiB,CkB72fjB,C;;QIB+2fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB13fA,iB

;MIB03fA,sC;QAeiB,Q;QAFb,IAh4QO,qBAAQ,CAG4Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,Wkbn4fG,MAAO,KlBm4fO,Qkbn4fP,ElBm4fiB,Ckbn4fjB,C;;QlBq4fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBh5fA,iB;MlBg5fA,sC;QAeiB,Q;QAFb,IA94QO,qBAAQ,CA84Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBz5fG,MAAO,KlBy5fO,QkBz5fP,ElBy5fiB,CkBz5fjB,C;;QlB25fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAI+QO,qBAAQ,CAk+Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAH/QO,qBAAQ,CAG/Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA9/QO,qBAAQ,CA8/Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA5gRO,qBAAQ,CA4gRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA1hRO,qBAAQ,CA0hRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAxiRO,qBAAQ,CAwiRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAIjRO,qBAAQ,CAsjRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IApkRO,qBAAQ,CAokRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAIiRO,qBAAQ,CAkiRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;4FAsBA,yB;MAAA,8D;MkBjmgBA,iB;MlBimgBA,sC;QAaiB,Q;QAFb,IAxqRO,qBAAQ,CAwqRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxmgBG,MAAO,KlBwmgBO,QkBxmgBP,ElBwmgBiB,CkBxmgBjB,C;;QlB0mgBd,OAAO,Q;O;KajBX,C;8FAoBA,yB;MAAA,8D;MkBrngBA,iB;MlBqngBA,sC;QAaiB,Q;QAFb,IAprRO,qBAAQ,CAorRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5ngBG,MAAO,KlB4ngBO,QkB5ngBP,ElB4ngBiB,CkB5ngBjB,C;;QlB8ngBd,OAAO,Q;O;KajBX,C;8FAoBA,yB;MAAA,8D;MkBzogBA,iB;MlByogBA,sC;QAaiB,Q;QAFb,IAhsRO,qBAAQ,CAGsRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhpgBG,MAAO,KlBgpgBO,QkBhpgBP,ElBgpgBiB,CkBhpgBjB,C;;QlBkpgBd,OAAO,Q;O;KajBX,C;8FAoBA,yB;MAAA,8D;MkB7pgBA,iB;MlB6pgBA,sC;QAaiB,Q;QAFb,IA5sRO,qBAAQ,CA4sRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBppgBG,MAAO,KlBoqgBO,QkBppgBP,ElBoqgBiB,CkBppgBjB,C;;QlBsqqBd,OAAO,Q;O;KajBX,C;8FAoBA,yB;MAAA,8D;MkBjrgBA,iB;MlBirgBA,sC;QAaiB,Q;QAFb,IAxtRO,qBAAQ,CAwtRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxrgBG,MAAO,KlBwrgBO,QkBxrgBP,ElBwrgBiB,CkBxrgBjB,C;;QlB0rgBd,OAAO,Q;O;KajBX,C;8FAoBA

,yB;MAAA,8D;MkBrsgBA,iB;MIBqsgBA,sC;QAaiB,Q;QAFb,IApuRO,qBAAQ,CAouRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5sgBG,MAAO,KIB4sgBO,QkB5sgBP,ElB4sgBiB,CkB5sgBjB,C;;QIB8sgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBztgBA,iB;MIBytgBA,sC;QAaiB,Q;QAFb,IAhvRO,qBAAQ,CAgvRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhugBG,MAAO,KIBgugBO,QkBhugBP,ElBgugBiB,CkBhugBjB,C;;QIBkugBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7ugBA,iB;MIB6ugBA,sC;QAaiB,Q;QAFb,IA5vRO,qBAAQ,CA4vRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpvgBG,MAAO,KIBovgBO,QkBpvgBP,ElBovgBiB,CkBpvgBjB,C;;QIBsvgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,oC;MAAA,8D;MkBjwgBA,iB;MIBiwgBA,sC;QAaiB,Q;QAFb,IAxwRO,qBAAQ,CAwwRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxwgBG,MAAO,KIBwwgBO,QkBxwgBP,ElBwwgBiB,CkBxwgBjB,C;;QIB0wgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBhygBA,iB;MIBgygBA,sC;QAaiB,Q;QAFb,IA51RO,qBAAQ,CA41Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvvgBG,MAAO,KIBuygBO,QkBvvgBP,ElBuygBiB,CkBvvgBjB,C;;QIByygBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBpzgBA,iB;MIBozgBA,sC;QAaiB,Q;QAFb,IAx2RO,qBAAQ,CAw2Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3zgBG,MAAO,KIB2zgBO,QkB3zgBP,ElB2zgBiB,CkB3zgBjB,C;;QIB6zgBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx0gBA,iB;MIBw0gBA,sC;QAaiB,Q;QAFb,IAp3RO,qBAAQ,CAo3Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/0gBG,MAAO,KIB+0gBO,QkB/0gBP,ElB+0gBiB,CkB/0gBjB,C;;QIBi1gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB51gBA,iB;MIB41gBA,sC;QAaiB,Q;QAFb,IAh4RO,qBAAQ,CAg4Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn2gBG,MAAO,KIBm2gBO,QkBn2gBP,ElBm2gBiB,CkBn2gBjB,C;;QIBq2gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBh3gBA,iB;MIBg3gBA,sC;QAaiB,Q;QAFb,IA54RO,qBAAQ,CA44Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv3gBG,MAAO,KIBu3gBO,QkBv3gBP,ElBu3gBiB,CkBv3gBjB,C;;QIBy3gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBp4gBA,iB;MIBo4gBA,sC;QAaiB,Q;QAFb,IAx5RO,qBAAQ,CAw5Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB34gBG,MAAO,KIB24gBO,QkB34gBP,ElB24gBiB,CkB34gBjB,C;;QIB64gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx5gBA,iB;MIBw5gBA,sC;QAaiB,Q;QAFb,IAp6RO,qBAAQ,CAo6Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/5gBG,MAAO,KIB+5gBO,QkB/5gBP,ElB+5gBiB,CkB/5gBjB,C;;QIBi6gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB56gBA,iB;MIB46gBA,sC;QAaiB,Q;QAFb,IAh7RO,qBAAQ,CAg7Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv8gBG,MAAO,KIBu8gBO,QkBv8gBP,ElBu8gBiB,CkBv8gBjB,C;;QIBy8gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9gSO,qBAAQ,CA8gSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1hSO,qBAAQ,CA0hSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAtiSO,qBAAQ,CAsiSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,

C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX, KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb, IA1jSO,qBAAQ,CAkSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU, CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;; QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9jSO,qBAAQ,CA8jSf,C; UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S AAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAj BX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1kSO,qBAAQ,CA0kSf,C;UAAe,OAAO,I;QACtB,e AAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA T,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAA A,8D;MAAA,sC;QAWiB,Q;QAFb,IA1lSO,qBAAQ,CA1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL, CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW, CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q ;QAFb,IA1mSO,qBAAQ,CAkmSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QA Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI, WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9 mSO,qBAAQ,CA8mSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU, CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;; QAGnB,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IApsSO,qBAAQ, CAosSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;U ACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC, CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAai B,Q;QAFb,IA1tSO,qBAAQ,CAktSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B; QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB ,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MA AA,8D;MAAA,kD;QAaiB,Q;QAFb,IAhuSO,qBAAQ,CAguSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK, CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,U AAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX, C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA9uSO,qBAAQ,CA8uSf,C;UAAe,MAAM,6B; QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CA AL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;Q AGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA5vSO,qBAAQ,C A4vSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UA CI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,C AAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB ,Q;QAFb,IA1wSO,qBAAQ,CA0wSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B ;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAak B,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;M AAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAxxSO,qBAAQ,CAwxSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAA K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI, UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX ,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA1ySO,qBAAQ,CAySf,C;UAAe,MAAM,6B; QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CA AL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;Q AGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IApzS O,qBAAQ,CAozSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,C AAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAA X,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;MAAA,kD;QA

WiB,Q;QAFb,IAx4SO,qBAAQ,CAw4Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAp5SO,qBAAQ,CAo5Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAh6SO,qBAAQ,CAG6Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA56SO,qBAAQ,CA46Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAx7SO,qBAAQ,CAw7Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAp8SO,qBAAQ,CAo8Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAh9SO,qBAAQ,CAG9Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA59SO,qBAAQ,CA49Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAx+SO,qBAAQ,CAw+Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,8B;MASiB,Q;MAFb,IA1jTO,qBAAQ,CA0jTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB1/hBG,MAAO,KIB0/hBE,GkB1/hBF,EIB0/hBO,CkB1/hBP,C;;MIB4/hBd,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IA1kTO,qBAAQ,CA0kTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB1/hBG,MAAO,KIBqhiBE,GkB1/hBF,EIBqhiBO,CkB1/hBP,C;;MIBuhiBd,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAx1TO,qBAAQ,CAw1Tf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA91TO,qBAAQ,CA81Tf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IApmTO,qBAAQ,CAomTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA1mTO,qBAAQ,CA0mTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAhnTO,qBAAQ,CAGnTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,oBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAxnTO,qBAAQ,CAwnTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB3miBG,MAAO,KIB2miBE,GkB3miBF,EIB2miBO,CkB3miBP,C;;MIB6miBd,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAhoTO,qBAAQ,CAGoTf,C;QAAe,OAAO,I;MAcTb,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBhniBG,MAAO,KIBg

niBE,GkBhniBF,ElBgniBO,CkBhniBP,C;;MIBkniBd,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA9nTO,qBAAQ,C  
A8nTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UA  
AK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,wC;MAGI,OAAO,yB  
AAc,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,  
0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BA  
Ac,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,0  
C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,8C;MAOiB,Q;MAFb,IAIwTO,qBAAQ,CAkwTf,C;QAAe,OAAO,I;M  
ACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,U  
AAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;  
MAOiB,Q;MAFb,IAxwTO,qBAAQ,CAwwTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MA  
Ab,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GA  
A6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9wTO,qBAAQ,CA8wTf,  
C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CA  
AL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,O  
AAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApxTO,qBAAQ,CAoxTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAA  
L,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa  
,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1xTO,  
qBAAQ,CA0xTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,Q  
AAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAA  
M,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhyTO,qBAAQ,CAgyTf,C;QAAe,OAAO,I;MACtB,UA  
AU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SA  
AQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,  
Q;MAFb,IAtyTO,qBAAQ,CAsyTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,C  
AAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC  
,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5yTO,qBAAQ,CA4yTf,C;QAAe,OAA  
O,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IA  
AAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IA  
GX,gD;MAOiB,Q;MAFb,IAIzTO,qBAAQ,CAkzTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC  
;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,EAAa,cAAb,CAA  
X,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,yB;MAMI,OAJ4TO,qBAAQ,C;K;IAo4TnB,  
2B;MAMI,OAI4TO,qBAAQ,C;K;IAq4TnB,2B;MAMI,OAN4TO,qBAAQ,C;K;IAS4TnB,2B;MAMI,OAP4TO,qBA  
AQ,C;K;IAu4TnB,2B;MAMI,OAr4TO,qBAAQ,C;K;IAw4TnB,2B;MAMI,OAt4TO,qBAAQ,C;K;IAY4TnB,2B;M  
AMI,OAv4TO,qBAAQ,C;K;IA04TnB,2B;MAMI,OAx4TO,qBAAQ,C;K;IA24TnB,2B;MAMI,OAz4TO,qBAAQ,C  
;K;gFA44TnB,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OA  
AV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;gFAGX,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QA  
AGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;  
MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAA  
wB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,  
M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB  
,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MAC  
rD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,U  
AAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB  
,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFA  
GX,gC;MAMoB,Q;MAAhB,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ  
,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAB,wB  
AAGB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,K  
;;QACrD,OAAO,I;O;KAPX,C;kFAUA,6B;MAMmC,Q;MAAhB,iD;QAAGB,cAAhB,e;QAAsB,OAAO,OAAP,C;;  
MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAGB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oF

AGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,yB;MAAA,oC;MAAA,gC;MAAA,oC;QAMmC,Q;QAaHb,iD;UAAgB,cAAhB,0B;UAAsB,OAAO,oBAAP,C;;QAArC,gB;O;KANJ,C;gGASA,6B;MARjJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA8jJnB,gB;K;kGAGJ,6B;MAvjJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAGkJnB,gB;K;kGAGJ,6B;MAzjJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAkkJnB,gB;K;kGAGJ,6B;MA3jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAokJnB,gB;K;kGAGJ,6B;MA7jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAskJnB,gB;K;kGAGJ,6B;MA/jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAwkJnB,gB;K;kGAGJ,6B;MAjkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA0kJnB,gB;K;kGAGJ,6B;MAnkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAMb,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA4kJnB,gB;K;kGAGJ,yB;MAAA,6B;MAAA,sC;MA5kJA,oC;MAAA,gC;MA4kJA,2BASiB,yB;QArlJjB,oC;QAAA,gC;eAqJiB,0B;UAAA,4B;YAAE,aAAe,c;YA9kJjB,gB;YADb,YAAY,C;YACZ,iD;cAAa,WAAb,0B;cAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;YA8kJmB,W;W;S;OAAzB,C;MATjB,oC;QArkJiB,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;QA8kJnB,gB;O;KATJ,C;kFAYA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAhvUO,qBAAQ,CAgvUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA9vUO,qBAAQ,CA8vUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5wUO,qBAAQ,CA4wUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxyUO,qBAAQ,CAwyUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA1xUO,qBAAQ,CA0xUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAI1UO,qBAAQ,CAk1Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAh2UO,qBAAQ,CAg2Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,E;;QAEIB,OAAO,W;O;KAnBX,C;gGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA7UO,qBAAQ,CA7Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAav,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;



QAgBqB,Q;QAHjB,IAp8UO,qBAAQ,CAo8Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,C  
AAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,  
CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,I  
Al9UO,qBAAQ,CAk9Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,CAAL,C;QACD,+B;Q  
AAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,O  
AAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAh+UO,qBAAQ,CAg  
+Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,  
yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,  
C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA9+UO,qBAAQ,CA8+Uf,C;UACI,MAA  
M,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,U  
AAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MA  
AA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5/UO,qBAAQ,CA4/Uf,C;UACI,MAAM,mCAA8B,+BAA9  
B,C;QACV,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,  
WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;  
MAAA,uC;QAgBqB,Q;QAHjB,IA1gVO,qBAAQ,CA0gVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAA  
kB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,U  
AAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB  
,Q;QAHjB,IAxhVO,qBAAQ,CAwhVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,CAAL,C;  
QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B  
,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAgB  
qB,Q;QAHjB,IAtiVO,qBAAQ,CAsiVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAaKB,UAAK,CAAL,C;  
QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,sBAAK,KAAL,EAA  
9B,E;;QAEIB,OAAO,W;O;KAnBX,C;4GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5nVO,qBAAQ,  
CA4nVf,C;UACI,OAAO,I;QACX,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,U  
AAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,yB;M  
AAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA1oVO,qBAAQ,CA0oVf,C;UACI,OAAO,I;QACX,kBAaKB,UAAK,C  
AAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,  
CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxpVO,qB  
AAQ,CAwpVf,C;UACI,OAAO,I;QACX,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,c  
AAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,  
yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAtqVO,qBAAQ,CAsqVf,C;UACI,OAAO,I;QACX,kBAaKB,UAA  
K,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KA  
AL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAprVO,  
qBAAQ,CAorVf,C;UACI,OAAO,I;QACX,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,  
cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsB  
A,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAIsVO,qBAAQ,CAksVf,C;UACI,OAAO,I;QACX,kBAaKB,U  
AAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,  
KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAht  
VO,qBAAQ,CAgtVf,C;UACI,OAAO,I;QACX,kBAaKB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;U  
ACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8G  
AsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA9tVO,qBAAQ,CA8tVf,C;UACI,OAAO,I;QACX,kBAaK  
B,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,U  
AAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,u  
C;QAgBqB,Q;QAHjB,IA5uVO,qBAAQ,CA4uVf,C;UACI,OAAO,I;QACX,kBAaKB,UAAK,CAAL,C;QACD,+B;  
QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,sBAAK,KAAL,EAA9B,E;;QAE  
IB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IAN0VO,qBAAQ,CAM0Vf,C;  
UACI,OAAO,I;QACX,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAA  
V,EAAuB,UAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbq

B,Q;QAHjB,IA11VO,qBAAQ,CAk1Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IAj2VO,qBAAQ,CAi2Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IAh3VO,qBAAQ,CAg3Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IA/3VO,qBAAQ,CA+3Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IA94VO,qBAAQ,CA84Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IA75VO,qBAAQ,CA65Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAIbqB,Q;QAHjB,IA56VO,qBAAQ,CA46Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAIbqB,Q;QAHjB,IA37VO,qBAAQ,CA27Vf,C;UACI,OAAO,I;QACX,kBAakB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,wBAAV,EAAuB,sBAAK,KAAL,EAAvB,E;;QAEIB,OAAO,W;O;KApBX,C;4FAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAE0,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,wBAAxB,E;;QAEIB,OAAO,W;O;KAnBX,C;0GAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAE6B,Q;QAFzB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,o

BAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WA  
A7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFt  
B,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,UAAI,YAAJ,  
EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA  
6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,  
Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,UAA  
I,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAj  
B,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;Q  
Ae0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAk  
B,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,  
KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;  
MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QA  
CrB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB  
,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MA  
AA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9  
B,C;QACrB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV  
,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,  
8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+  
BAA9B,C;QACrB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,  
KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;  
MAAA,8D;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAA  
Z,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,  
CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAl,KAAJ,EAajB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OA  
AO,W;O;KApBX,C;SHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFzB,YAAY,wB;QACZ,IAAI,QAAQ,CAA  
Z,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAA  
c,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHA  
uBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QAC  
tB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,  
UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MA  
AA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAA  
J,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EA  
A6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB  
,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QAC  
IB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,q  
B;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,  
QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,  
C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;K  
ApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,  
OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,K  
AAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;M  
AAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAak  
B,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAA  
J,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe  
0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oB  
AAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA

7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAE0  
B,Q;QAFtB,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBA  
AJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,wBAA  
7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wGAuBA,yB;MAAA,8D;MAAA,uC;QAgB6B,UAE0,M;QAJhC,  
YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB  
,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OA  
AO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QA  
AQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;U  
ACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAuB  
A,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,  
I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cA  
AJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC  
;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,Y  
AAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EA  
AwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJh  
C,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QAC  
IB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,O  
AAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,Q  
AAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;  
UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAu  
BA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAA  
O,I;QACtB,kBAakB,UAAI,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,c  
AAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,  
uC;QAgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI  
,YAAJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,E  
AAwB,WAAxB,C;;QAEIB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;Q  
AgB0B,UAEU,M;QAJhC,YAAy,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,UAAI,YA  
AJ,EAAI,oBAAJ,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EA  
AwB,wBAAxB,E;;QAEIB,OAAO,W;O;KApBX,C;4FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;Q  
AHhB,IAP0XO,qBAAQ,CAo0Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,  
C;QAA+B,8B;QAA5C,aiBj9mBO,W;QjBk9mBP,kBAakB,O;QACIB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAh  
B,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAavB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApB  
X,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP1XO,qBAAQ,CAo1Xf,C;UAAe,OA  
AO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz+mBO,W;QjB0+m  
BP,kBAakB,O;QACIB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OA  
AvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAA  
A,gD;QAIBoB,Q;QAHhB,IAP2XO,qBAAQ,CAo2Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mB  
AAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjgnBO,W;QjBkgnBP,kBAakB,O;QACIB,wBAAgB,SAAhB,gB;UA  
AgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAavB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,O  
AAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP3XO,qBAAQ,CAo  
3Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzh  
nBO,W;QjB0hnBP,kBAakB,O;QACIB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WA  
AV,EAAuB,OAavB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;  
MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP4XO,qBAAQ,CAo4Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,k  
BAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjgnBO,W;QjBkgnBP,kBAakB,O;QACIB,wBAAg  
B,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAavB,C;UACd,MAAO,WAAI,W  
AAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP5  
XO,qBAAQ,CAo5Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8

B;QAA5C,aiBzknBO,W;QjB0knBP,kBAAkB,O;QACIB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP6XO,qBAAQ,CAo6Xf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjmnBO,W;QjBkmmBP,kBAAkB,O;QACIB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP7XO,qBAAQ,CAo7Xf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBznnBO,W;QjB0nnBP,kBAAkB,O;QACIB,wBAAGB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAIBoB,Q;QAHhB,IAP8XO,qBAAQ,CAo8Xf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjpnBO,W;QjBkpnBP,kBAAkB,O;QACIB,wBAAGB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,cAAc,UAAU,WAAV,EAAuB,oBAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;OGAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAcI,IA5hYO,qBAAQ,CA4hYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzqnBO,W;QjB0qnBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4GAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IA7iYO,qBAAQ,CA6iYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBlsnBO,W;QjBmsnBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IA9jYO,qBAAQ,CA8jYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiB3tnBO,W;QjB4tnBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IA/kYO,qBAAQ,CA+kYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBpvnBO,W;QjBqvnBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IAhmYO,qBAAQ,CAGmYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiB7wnBO,W;QjB8wnBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IAjnYO,qBAAQ,CAinYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBtynBO,W;QjBuynBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IAloYO,qBAAQ,CAkoYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiB/znBO,W;QjBg0nBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IANpYO,qBAAQ,CAnpYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBx1nBO,W;QjBy1nBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAEI,IApYqYO,qBAAQ,CAoqYf,C;UAAe,OAAO,OAAO,OAAp,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj3nBO,W;QjBk3nBP,kBAAkB,O;QACIB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,EAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;gGayBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAcI,IA5vYO,qBAAQ,CA4vYf,C;UAAe,OAAO,W;QACTb,sBAaqB,UAAK,CAAL,CAArB,C;QACgC,kBAAnB,eAAa,gBAAb,C;QAA2B,sBAAL,aAAJ,C;QAAxC,aiB14nBO,W;QjB24nBP,iBAAC,CAAd,UAAsB,gBAAtB,U;UACI,gBAAC,UAAU,aAAV,EAAuB,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KArBX,C;gGAwBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAzwYO,qBAAQ,CAywYf,C;UAAe,OAAO,W;QACTb,sBAakB,UAAK,CAAL,CAAIb,C;QACmC,kBAAtB,eAAgB,

gBAAhB,C;QAA8B,sBAAl,AAAJ,C;QAA3C,aiB/5nBO,W;QjBg6nBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAtxYO,qBAAQ,CAsxYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAl,AAAJ,C;QAA5C,aiBp7nBO,W;QjBq7nBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAnyYO,qBAAQ,CamyYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACkC,kBAArB,eAAe,gBAAf,C;QAA6B,sBAAl,AAAJ,C;QAA1C,aiBz8nBO,W;QjB08nBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAhzYO,qBAAQ,CAGzYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAl,AAAJ,C;QAA3C,aiB99nBO,W;QjB+9nBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA7zYO,qBAAQ,CA6zYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAl,AAAJ,C;QAA5C,aiBn/nBO,W;QjBo/nBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA10YO,qBAAQ,CA00Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACqC,kBAAxB,eAAkB,gBAAlB,C;QAAgC,sBAAl,AAAJ,C;QAA7C,aiBxgoBO,W;QjBygoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAv1YO,qBAAQ,CAu1Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACsC,kBAAzB,eAAmB,gBAAnB,C;QAAiC,sBAAl,AAAJ,C;QAA9C,aiB7hoBO,W;QjB8hoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAWI,IAp2YO,qBAAQ,CAo2Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAl,0BAAJ,C;QAA3C,aiBljoBO,W;QjBmjoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,oBAAU,0BAAV,EAAuB,sBAAK,KAAL,EAAvB,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KAIBX,C;8GAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QACI,IA57YO,qBAAQ,CA47Yf,C;UAAe,OAAO,W;QACtB,sBAAqB,UAAK,CAAL,CAArB,C;QACgC,kBAAnB,eAAa,gBAAb,C;QAA2B,sBAAl,AAAJ,C;QAAxC,aiB1koBO,W;QjB2koBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAHV,EAAiB,AAAJB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KArBX,C;gHAWBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA18YO,qBAAQ,CA08Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAl,AAAJ,C;QAA3C,aiBhmoBO,W;QjBimoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAHV,EAAiB,AAAJB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAx9YO,qBAAQ,CAw9Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAl,AAAJ,C;QAA5C,aiBtnoBO,W;QjBunoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAHV,EAAiB,AAAJB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA+YO,qBAAQ,CAs+Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACkC,kBAArB,eAAe,gBAAf,C;QAA6B,sBAAl,AAAJ,C;QAA1C,aiB5ooBO,W;QjB6ooBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAHV,EAAiB,AAAJB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAp/YO,qBAAQ,CAo/Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAl,AAAJ,C;QAA3C,aiBlqoBO,W;QjBmqoBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAHV,EAAiB,AAAJB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAIAlgZO,qBAAQ,CAkgZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAl,AAAJ,C;QAA5C,aiBxroBO,W;QjByroBP,iBAAc,CAAd,UAAAsB,gBAAtB,U;UACI,gB

AAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OA  
AO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAhhZO,qBAAQ,CAghZf,C;UAAe,O  
AAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,C;QACqC,kBAAXB,eAAkB,gBAAIB,C;QAAgC,sBAAI,aAAJ,C  
;QAA7C,aiB9soBO,W;QjB+soBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB  
,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;M  
AAA,qD;MAAA,gE;MAAA,uC;QAYI,IA9hZO,qBAAQ,CA8hZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,C  
AAL,CAAIB,C;QACsC,kBAAZB,eAAmB,gBAAnB,C;QAAiC,sBAAI,aAAJ,C;QAA9C,aiBpuoBO,W;QjBquoBP,i  
BAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;  
UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;M  
AAA,gC;MAAA,uC;QAYI,IA5iZO,qBAAQ,CA4iZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAIB,  
C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,0BAAJ,C;QAA3C,aiB1voBO,W;QjB2voBP,iBAAc,CA  
Ad,UAAsB,gBAAtB,U;UACI,gBAAc,oBAAU,KAAV,EAAiB,0BAAjB,EAA8B,sBAAK,KAAL,EAA9B,E;UACd,  
MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;8EAsBA,yB;MA/zBA,gD;MAAA,gE;MA+zBA,gD;QAc  
W,sB;;UA7zBS,Q;UAHhB,IAp0XO,qBAAQ,CAo0Xf,C;YAAe,qBAAO,OA00BH,OA00BG,C;YAAP,uB;WACqB  
,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+zBzB,OA/zByB,C;UAA5C,aiBj9mBO,W;UjBk9mBP,kB  
A8zBmB,O;UA7zBnB,iD;YAAgB,cAAhB,e;YACI,cA4zBwB,SA5zBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,  
MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAyzBP,yB;O;KADJ,C;gFAiBA,yB;MAzzBA,gD;MAAA,gE;MAyz  
BA,gD;QAEW,sB;;UA7zBS,Q;UAHhB,IAp1XO,qBAAQ,CAo1Xf,C;YAAe,qBAAO,OA0zBH,OA1zBG,C;YAAP,  
uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAyzBzB,OAzzByB,C;UAA5C,aiBz+mBO,W;Uj  
B0+mBP,kBAwzBmB,O;UA7zBnB,iD;YAAgB,cAAhB,e;YACI,cAszBwB,SAtzBV,CAAU,WAAV,EAAuB,OAA  
vB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAmzBP,yB;O;KafJ,C;gFAkBA,yB;MANzBA,gD;MA  
AA,gE;MAmzBA,gD;QAEW,sB;;UA7zBS,Q;UAHhB,IAp2XO,qBAAQ,CAo2Xf,C;YAAe,qBAAO,OAozBH,OA  
zBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAyzBzB,OAyzByB,C;UAA5C,ai  
BjgnBO,W;UjBkgnBP,kBAkzBmB,O;UA7zBnB,iD;YAAgB,cAAhB,e;YACI,cAgzBwB,SAhzBV,CAAU,WAAV,  
EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA6yBP,yB;O;KafJ,C;gFAkBA,yB;MA  
7yBA,gD;MAAA,gE;MA6yBA,gD;QAEW,sB;;UA3yBS,Q;UAHhB,IAp3XO,qBAAQ,CAo3Xf,C;YAAe,qBAAO,  
OA8yBH,OA9yBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6yBzB,OA7yBy  
B,C;UAA5C,aiBzhnBO,W;UjB0hnBP,kBA4yBmB,O;UA3yBnB,iD;YAAgB,cAAhB,e;YACI,cA0yBwB,SA1yBV,  
CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAuyBP,yB;O;KafJ,C;g  
FAkBA,yB;MAvyBA,gD;MAAA,gE;MAuyBA,gD;QAEW,sB;;UAryBS,Q;UAHhB,IAp4XO,qBAAQ,CAo4Xf,C;Y  
AAe,qBAAO,OAwyBH,OAxyBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAuy  
BzB,OAvyByB,C;UAA5C,aiBjnnBO,W;UjBknnBP,kBA5yBmB,O;UAryBnB,iD;YAAgB,cAAhB,e;YACI,cAoyBw  
B,SApyBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAiyBP,yB;  
O;KafJ,C;gFAkBA,yB;MAjyBA,gD;MAAA,gE;MAiyBA,gD;QAEW,sB;;UA/xBS,Q;UAHhB,IAp5XO,qBAAQ,C  
Ao5Xf,C;YAAe,qBAAO,OAkyBH,OAlyBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA  
+B,sBAiyBzB,OAjyByB,C;UAA5C,aiBzknBO,W;UjB0knBP,kBAgyBmB,O;UA/xBnB,iD;YAAgB,cAAhB,e;YAC  
I,cA8xBwB,SA9xBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA  
2xBP,yB;O;KafJ,C;gFAkBA,yB;MA3xBA,gD;MAAA,gE;MA2xBA,gD;QAEW,sB;;UAzxBS,Q;UAHhB,IAp6XO,  
qBAAQ,CAo6Xf,C;YAAe,qBAAO,OA4xBH,OA5xBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IA  
Ab,C;UAA+B,sBA2xBzB,OA3xByB,C;UAA5C,aiBjmnBO,W;UjBkmnBP,kBA0xBmB,O;UAzxBnB,iD;YAAgB,c  
AAhB,e;YACI,cAwxBwB,SAxxBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,q  
BAAO,M;;;QAqxBP,yB;O;KafJ,C;gFAkBA,yB;MARxBA,gD;MAAA,gE;MAqxBA,gD;QAEW,sB;;UANxBS,Q;U  
AHhB,IAp7XO,qBAAQ,CAo7Xf,C;YAAe,qBAAO,OA8xBH,OA9xBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mB  
AAO,CAAP,IAAb,C;UAA+B,sBAqxzBzB,OA9xByB,C;UAA5C,aiBznnBO,W;UjB0nnBP,kBAoxBmB,O;UANxBn  
B,iD;YAAgB,cAAhB,e;YACI,cAkxBwB,SA1xBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAA  
J,C;;UAEX,qBAAO,M;;;QA+wBP,yB;O;KafJ,C;gFAkBA,yB;MA/wBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;M  
A+wBA,gD;QAEW,sB;;UA7wBS,Q;UAHhB,IAp8XO,qBAAQ,CAo8Xf,C;YAAe,qBAAO,OA9xBH,OA9xBG,C;  
YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+wBzB,OA/wByB,C;UAA5C,aiBjpnB





gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;M  
AOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,C  
AAP,I;;MAEJ,OAAO,G;K;kFAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAe,C;QACf,wB  
AAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;  
KAVX,C;4FAaA,+B;MAOoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q  
ACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,  
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q  
;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MA  
EX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh  
B,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACIB,wB  
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MA  
OoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,  
C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,  
SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACI  
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,y  
B;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAkB,G;QACIB,wBAAgB,SAAhB,gB;UAAgB,cAAh  
B,UAAgB,SAAhB,O;UACI,OAAO,SAAS,oBAAT,C;;QAEJ,OAAO,G;O;KAVX,C;gFAaA,+B;MAUoB,Q;MADh  
B,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,O  
AAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;  
QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAg  
B,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,  
Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;  
MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S  
AAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB  
,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;  
MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,O  
AAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,c  
AAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,yB;MAAA,oC;MAAA,gC;MAAA,s  
C;QAUoB,Q;QADhB,UAAoB,C;QACpB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,OAAO  
,SAAS,oBAAT,C;;QAEJ,OAAO,G;O;KAbX,C;kFagBA,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SA  
AhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAUoB,  
Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;  
;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh  
B,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,w  
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,  
+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,O  
AAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAg  
B,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,U  
AAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAA  
O,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,  
YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QA  
DhB,UAAe,C;QACf,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,oBAAT,CA  
AP,I;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wB  
AAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;m  
FagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,S  
AAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SASoB,gB;MA  
TpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAA  
T,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QAC

A,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAb X,C;mFagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAA AA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SASoB,g B;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS, OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y; QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O; KAbX,C;mFagBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAg B,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MAAA,SAS oB,gB;MATpB,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAhB,U AAgB,SAAhB,O;UACI,cAAO,SAAS,oBAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFagBA,yB;MGI7pBA,6B; MHk7pBA,sC;QAWoB,Q;QADhB,UGl7pBmC,cHk7pBnB,CGl7pBmB,C;QHm7pBnB,wBAAgB,SAAhB,gB;UA AgB,cAAA,SAAhB,M;UACI,MGtvqBiD,cHsvqBjD,GGtvqB2D,KAAK,GHsvqBzD,SAAS,OAAT,CGtvqBoE,KA AX,IAAf,C;;QHwvqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGn8pBA,6B;MHm8pBA,sC;QAWoB,Q;QADhB,U Gn8pBmC,cHm8pBnB,CGn8pBmB,C;QH08pBnB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGvw qBiD,cHuwqBjD,GGvwqB2D,KAAK,GHuwqBzD,SAAS,OAAT,CGvwqBoE,KAAH,IAAf,C;;QHwyqBrD,OAAO ,G;O;KAdX,C;mFAiBA,yB;MGp9pBA,6B;MH09pBA,sC;QAWoB,Q;QADhB,UGp9pBmC,cH09pBnB,CGp9pBm B,C;QHq9pBnB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGxxqBiD,cHwxqBjD,GGxxqB2D,KA AK,GHwxqBzD,SAAS,OAAT,CGxxqBoE,KAAH,IAAf,C;;QH0xqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGr+p BA,6B;MHq+pBA,sC;QAWoB,Q;QADhB,UGr+pBmC,cHq+pBnB,CGr+pBmB,C;QHs+pBnB,wBAAgB,SAAhB, gB;UAAgB,cAAA,SAAhB,M;UACI,MGzyqBiD,cHyqBjD,GGzyqB2D,KAAK,GHyqBzD,SAAS,OAAT,CGzyq BoE,KAAH,IAAf,C;;QH2yqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGt/pBA,6B;MHs/pBA,sC;QAWoB,Q;QAD hB,UGt/pBmC,cHs/pBnB,CGt/pBmB,C;QH0/pBnB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG1z qBiD,cH0zqBjD,GG1zqB2D,KAAK,GH0zqBzD,SAAS,OAAT,CG1zqBoE,KAAH,IAAf,C;;QH4zqBrD,OAAO,G; O;KAdX,C;mFAiBA,yB;MGvgqBA,6B;MHugqBA,sC;QAWoB,Q;QADhB,UGvgqBmC,cHugqBnB,CGvgqBmB, C;QHwgqBnB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG30qBiD,cH20qBjD,GG30qB2D,KAAK ,GH20qBzD,SAAS,OAAT,CG30qBoE,KAAH,IAAf,C;;QH60qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGxhqBA ,6B;MHwhqBA,sC;QAWoB,Q;QADhB,UGxhqBmC,cHwhqBnB,CGxhqBmB,C;QH0yqBnB,wBAAgB,SAAhB,gB ;UAAgB,cAAA,SAAhB,M;UACI,MG51qBiD,cH41qBjD,GG51qB2D,KAAK,GH41qBzD,SAAS,OAAT,CG51qBo E,KAAH,IAAf,C;;QH81qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGziqBA,6B;MHyiqBA,sC;QAWoB,Q;QADh B,UGziqBmC,cHyiqBnB,CGziqBmB,C;QH0iqBnB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG72 qBiD,cH62qBjD,GG72qB2D,KAAK,GH62qBzD,SAAS,OAAT,CG72qBoE,KAAH,IAAf,C;;QH+2qBrD,OAAO,G ;O;KAdX,C;mFAiBA,yB;MAAA,oC;MAAA,gC;MG1jqBA,6B;MH0jqBA,sC;QAWoB,Q;QADhB,UG1jqBmC,cH 0jqBnB,CG1jqBmB,C;QH2jqBnB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,MG93qBiD,c H83qBjD,GG93qB2D,KAAK,GH83qBzD,SAAS,oBAAT,CG93qBoE,KAAH,IAAf,C;;QHg4qBrD,OAAO,G;O;K AdX,C;mFAiBA,yB;MmBxkqBA,+B;MnBwkqBA,sC;QAWoB,Q;QADhB,UmBvkqBqC,eAAW,oBnBukqB/B,Cm BvkqB+B,CAAX,C;QnBwkqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB54qBmD,enB44qB nD,GmB54qB8D,KAAK,KnB44qB5D,SAAS,OAAT,CmB54qBuE,KAAH,CAAhB,C;;QnB84qBvD,OAAO,G;O;K AdX,C;mFAiBA,yB;MmBzmqBA,+B;MnBylqBA,sC;QAWoB,Q;QADhB,UmBxlqBqC,eAAW,oBnBwmlqB/B,CmB xmqB+B,CAAX,C;QnBylqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB75qBmD,enB65qBnD ,GmB75qB8D,KAAK,KnB65qB5D,SAAS,OAAT,CmB75qBuE,KAAH,CAAhB,C;;QnB+5qBvD,OAAO,G;O;KAd X,C;mFAiBA,yB;MmB1mqBA,+B;MnB0mqBA,sC;QAWoB,Q;QADhB,UmBzmqBqC,eAAW,oBnBzmqB/B,Cm BzmqB+B,CAAX,C;QnB0mqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB96qBmD,enB86q BnD,GmB96qB8D,KAAK,KnB86qB5D,SAAS,OAAT,CmB96qBuE,KAAH,CAAhB,C;;QnBg7qBvD,OAAO,G;O; KAdX,C;kFAiBA,yB;MmB3nqBA,+B;MnB2nqBA,sC;QAWoB,Q;QADhB,UmB1nqBqC,eAAW,oBnB0nqB/B,C mB1nqB+B,CAAX,C;QnB2nqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB/7qBmD,enB+7q BnD,GmB/7qB8D,KAAK,KnB+7qB5D,SAAS,OAAT,CmB/7qBuE,KAAH,CAAhB,C;;QnBi8qBvD,OAAO,G;O;K AdX,C;mFAiBA,yB;MmB5oqBA,+B;MnB4oqBA,sC;QAWoB,Q;QADhB,UmB3oqBqC,eAAW,oBnB2oqB/B,Cm B3oqB+B,CAAX,C;QnB4oqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBh9qBmD,enBg9qB

nD,GmBh9qB8D,KAAK,KnBg9qB5D,SAAS,OAAT,CmBh9qBuE,KAAX,CAAhB,C;;QnBk9qBvD,OAAO,G;O;K AdX,C;mFAiBA,yB;MmB7pqBA,+B;MnB6pqBA,sC;QAWoB,Q;QADhB,UmB5pqBqC,eAAW,oBnB4pqB/B,Cm B5pqB+B,CAAX,C;QnB6pqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBj+qBmD,enBi+qBn D,GmBj+qB8D,KAAK,KnBi+qB5D,SAAS,OAAT,CmBj+qBuE,KAAX,CAAhB,C;;QnBm+qBvD,OAAO,G;O;KA dX,C;mFAiBA,yB;MmB9qqBA,+B;MnB8qqBA,sC;QAWoB,Q;QADhB,UmB7qqBqC,eAAW,oBnB6qqB/B,CmB 7qqB+B,CAAX,C;QnB8qqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBl/qBmD,enBk/qBnD, GmBl/qB8D,KAAK,KnBk/qB5D,SAAS,OAAT,CmBl/qBuE,KAAX,CAAhB,C;;QnBo/qBvD,OAAO,G;O;KAdX,C ;kFAiBA,yB;MmB/rqBA,+B;MnB+rqBA,sC;QAWoB,Q;QADhB,UmB9rqBqC,eAAW,oBnB8rqB/B,CmB9rqB+B, CAAX,C;QnB+rqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBngrBmD,enBmgrBnD,GmBng rB8D,KAAK,KnBmgrB5D,SAAS,OAAT,CmBngrBuE,KAAX,CAAhB,C;;QnBqgrBvD,OAAO,G;O;KAdX,C;mF AiBA,yB;MAAA,oC;MAAA,gC;MmBhtqBA,+B;MnBgtqBA,sC;QAWoB,Q;QADhB,UmB/sqBqC,eAAW,oBnB+ sqB/B,CmB/sqB+B,CAAX,C;QnBgtqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,MmB phrBmD,enBohrBnD,GmBphrB8D,KAAK,KnBohrB5D,SAAS,oBAAT,CmBphrBuE,KAAX,CAAhB,C;;QnBshrB vD,OAAO,G;O;KAdX,C;IAiBA,mC;MAIoB,UAMT,M;MANP,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M; QACI,IAAI,eAAJ,C;UACI,MAAM,gCAAYB,2BAAwB,SAAXB,MAAZB,C;;MAId,OAAO,OD;K;wFAGX,yB;MA AA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAA gB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI, OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA ,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAC I,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cA AK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YA AY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAA J,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ, C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;Q ACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI, OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,y B;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB ;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,W AAI,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;M AAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M; UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAA O,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFh B,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV ,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,M AAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa, gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,W AAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAo BA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB; QACb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,KA AM,WAAI,oBAAJ,C;;YAEN,MAAO,WAAI,oBAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX, C;IAoBA,+B;MAkGI,WkB3orBO,MAAO,KIB2orBG,gBkB3orBH,ElBgrBH,KA2FkB,OkB3orBf,C;MIB4orBd,WA AW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA9FqB,GA8FP,UAAK,CAAL,CA 9FO,EAAnB,KA8FqB,CAAM,CAAN,CA9FF,CA8FrB,C;;MA9FT,OAgGO,I;K;IA7FX,iC;MAwGI,WkB3prBO,M AAO,KIB2prBG,gBkB3prBH,ElB0jrBH,KAiGkB,OkB3prBf,C;MIB4prBd,WAAW,iBAAa,IAAb,C;MACX,aAAU, CAAV,MAAkB,IAAIB,M;QACI,IAAK,WApGqB,GAoGP,UAAK,CAAL,CApGO,EAAnB,KAOGqB,CAAM,CA AN,CApGF,CAoGrB,C;;MApGT,OAsGO,I;K;IAngX,iC;MA8GI,WkB3qrBO,MAAO,KIB2qrBG,gBkB3qrBH,El BokrBH,KAuGkB,OkB3qrBf,C;MIB4qrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QA CI,IAAK,WA1GqB,GA0GP,UAAK,CAAL,CA1GO,EAAnB,KAOGqB,CAAM,CAAN,CA1GF,CA0GrB,C;;MA1G

T,OA4GO,I;K;IAzGX,iC;MAoHI,WkB3rrBO,MAAO,KIB2rrBG,gBkB3rrBH,EIB8krBH,KA6GkB,OkB3rrBf,C;MIB4rrBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAhHqB,GAgHP,UAAK,CAAL,CAhHO,EAAAnB,KAgHqB,CAAM,CAAN,CAhHF,CAgHrB,C;;MAhHT,OAKHO,I;K;IA/GX,iC;MA0HI,WkB3srBO,MAAO,KIB2srBG,gBkB3srBH,EIBwlrBH,KAmHkB,OkB3srBf,C;MIB4srBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAtHqB,GAsHP,UAAK,CAAL,CAtHO,EAAAnB,KAsHqB,CAAM,CAAN,CAtHF,CAsHrB,C;;MatHT,OAWhO,I;K;IARHX,iC;MAGII,WkB3trBO,MAAO,KIB2trBG,gBkB3trBH,EIBkMrBH,KAyHkB,OkB3trBf,C;MIB4trBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA5HqB,GA4HP,UAAK,CAAL,CA5HO,EAAAnB,KA4HqB,CAAM,CAAN,CA5HF,CA4HrB,C;;MA5HT,OA8HO,I;K;IA3HX,iC;MA5II,WkB3urBO,MAAO,KIB2urBG,gBkB3urBH,EIB4mrBH,KA+HkB,OkB3urBf,C;MIB4urBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAIqB,GAKIP,UAAK,CAAL,CAIO,EAAAnB,KakIqB,CAAM,CAAN,CAIIF,CAkIrB,C;;MAIIT,OAoIO,I;K;IAjIX,iC;MA4II,WkB3vrBO,MAAO,KIB2vrBG,gBkB3vrBH,EIBsnrBH,KaQIkB,OkB3vrBf,C;MIB4vrBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAxIqB,GAwIP,UAAK,CAAL,CAxIO,EAAAnB,KAwIqB,CAAM,CAAN,CAxIF,CAwIrB,C;;MAxIT,OAoIO,I;K;IAvIX,iC;MAkJI,WkB3wrBO,MAAO,KIB2wrBG,gBkB3wrBH,EIBgorBH,KA2IkB,OkB3wrBf,C;MIB4wrBd,WAAW,iBAaAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA9IqB,GA8IP,sBAAK,CAAL,EA9IO,EAAAnB,KA8IqB,CAAM,CAAN,CA9IF,CA8IrB,C;;MA9IT,OAgiO,I;K;8EA7IX,yB;MAAA,gE;MkBzorBA,iB;MIByorBA,8C;QAQI,WkB3orBO,MAAO,KIB2orBG,gBkB3orBH,EIB2orBS,KAAM,OkB3orBf,C;QIB4orBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;8EAgBA,yB;MAAA,gE;MkBzprBA,iB;MIByprBA,8C;QAQI,WkB3prBO,MAAO,KIB2prBG,gBkB3prBH,EIB2prBS,KAAM,OkB3prBf,C;QIB4prBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBzqrBA,iB;MIByqrBA,8C;QAQI,WkB3qrBO,MAAO,KIB2qrBG,gBkB3qrBH,EIB2qrBS,KAAM,OkB3qrBf,C;QIB4qrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;8EAgBA,yB;MAAA,gE;MkBzrrBA,iB;MIByrrBA,8C;QAQI,WkB3rrBO,MAAO,KIB2rrBG,gBkB3rrBH,EIB2rrBS,KAAM,OkB3rrBf,C;QIB4rrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBzsrBA,iB;MIBysrBA,8C;QAQI,WkB3srBO,MAAO,KIB2srBG,gBkB3srBH,EIB2srBS,KAAM,OkB3srBf,C;QIB4srBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBztrBA,iB;MIBytrBA,8C;QAQI,WkB3trBO,MAAO,KIB2trBG,gBkB3trBH,EIB2trBS,KAAM,OkB3trBf,C;QIB4trBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBzurBA,iB;MIByurBA,8C;QAQI,WkB3urBO,MAAO,KIB2urBG,gBkB3urBH,EIB2urBS,KAAM,OkB3urBf,C;QIB4urBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBzvrBA,iB;MIByvrBA,8C;QAQI,WkB3vrBO,MAAO,KIB2vrBG,gBkB3vrBH,EIB2vrBS,KAAM,OkB3vrBf,C;QIB4vrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MAAA,oC;MkBzwrBA,iB;MIBywrBA,8C;QAQI,WkB3wrBO,MAAO,KIB2wrBG,gBkB3wrBH,EIB2wrBS,KAAM,OkB3wrBf,C;QIB4wrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,EA AV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;IAGBA,kC;MAqGoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkBT3rBJ,MAAO,KIBs3rBsB,wBA5FzB,KA4FyB,EAawB,EAaxB,CkBT3rBtB,EIBs3rBmD,SkBT3rBnD,CIBs3rBH,C;MACX,QAAQ,C;MACQ,OA9FL,KA8FK,W;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,KA AK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhGqB,GAGP,UAAK,UAAAL,EA AK,kBAAL,SAhGO,EAAGI,OA hGJ,CAgGrB,C;;MAhGT,OAKGO,I;K;IA/FX,kC;MA6GoB,gB;MAHhB,gBAAGB,gB;MACHB,WAAW,iBkBX4rBJ,MAAO,KIBw4rBsB,wBApGzB,KAOgyB,EAawB,EAaxB,CkBX4rBtB

,ElBw4rBmD,SkBx4rBnD,CIBw4rBH,C;MACX,QAAQ,C;MACQ,OAatGL,KAsGK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxGqB,GAwGP,UAAK,UAAL,EAAK,kBAAL,SAxGO,EAwGI,OAxGJ,CAwGrB,C;:MAxGT,OA0GO,I;K;IAvGX,kC;MAqHoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkB15rBJ,MAAO,KIB05rBsB,wBA5GzB,KA4GyB,EAAwB,EAAxB,CkB15rBtB,ElB05rBmD,SkB15rBnD,CIB05rBH,C;MACX,QAAQ,C;MACQ,OA9GL,KA8GK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhHqB,GAgHP,UAAK,UAAL,EAAK,kBAAL,SAhHO,EAghI,OAhhJ,CAgHrB,C;:MAhHT,OAKHO,I;K;IA/GX,kC;MA6HoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkB56rBJ,MAAO,KIB46rBsB,wBApHzB,KAoHyB,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBnD,CIB46rBH,C;MACX,QAAQ,C;MACQ,OAthL,KAsHK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxHqB,GAwHP,UAAK,UAAL,EAAK,kBAAL,SAxHO,EAwHI,OAxHJ,CAwHrB,C;:MAxHT,OA0HO,I;K;IAvHX,kC;MAqIoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkB97rBJ,MAAO,KIB87rBsB,wBA5HzB,KA4HyB,EAAwB,EAAxB,CkB97rBtB,ElB87rBmD,SkB97rBnD,CIB87rBH,C;MACX,QAAQ,C;MACQ,OA9HL,KA8HK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhIqB,GAgIP,UAAK,UAAL,EAAK,kBAAL,SAhIO,EAgiI,OAhhJ,CAgIrB,C;:MAhIT,OAKIO,I;K;IA/HX,kC;MA6IoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkBh9rBJ,MAAO,KIBg9rBsB,wBApIzB,KAoIyB,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,CIBg9rBH,C;MACX,QAAQ,C;MACQ,OAthL,KAsIK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxIqB,GAwIP,UAAK,UAAL,EAAK,kBAAL,SAxIO,EAwII,OAxIJ,CAwIrB,C;:MAxIT,OA0IO,I;K;IAvIX,kC;MAqJoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkBl+rBJ,MAAO,KIBk+rBsB,wBA5IzB,KA4IyB,EAAwB,EAAxB,CkBBl+rBtB,ElBk+rBmD,SkBl+rBnD,CIBk+rBH,C;MACX,QAAQ,C;MACQ,OA9IL,KA8IK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhJqB,GAgJP,UAAK,UAAL,EAAK,kBAAL,SAhJO,EAgiI,OAhhJ,CAgIrB,C;:MAhJT,OAKJO,I;K;IA/IX,kC;MA6JoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkBp/rBJ,MAAO,KIBo/rBsB,wBApJzB,KAoJyB,EAAwB,EAAxB,CkBp/rBtB,ElBo/rBmD,SkBp/rBnD,CIBo/rBH,C;MACX,QAAQ,C;MACQ,OAthL,KAsJK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxJqB,GAwJP,UAAK,UAAL,EAAK,kBAAL,SAxJO,EAwJI,OAxJJ,CAwJrB,C;:MAxJT,OA0JO,I;K;IAvJX,kC;MAqKoB,gB;MAHhB,gBAAgB,gB;MACHB,WAAW,iBkBtgsBJ,MAAO,KIBsgsBsB,wBA5JzB,KA4JyB,EAAwB,EAAxB,CkBtgsBtB,ElBsgsBmD,SkBtgsBnD,CIBsgsBH,C;MACX,QAAQ,C;MACQ,OA9JL,KA8JK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhKqB,GAgKP,sBAAK,UAAL,EAAK,kBAAL,UAhKO,EAgiI,OAhhJ,CAgKrB,C;:MAhKT,OAKKO,I;K;+EA/JX,yB;MAAA,kF;MAAA,gE;Mkbn3rBA,iB;MIBm3rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACHB,WAAW,ekBt3rBJ,MAAO,KIBs3rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBt3rBtB,ElBs3rBmD,SkBt3rBnD,CIBs3rBH,C;QACX,QAAQ,C;QACQ,uB;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAARb,CAAJ,C;:QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkBr4rBA,iB;MIBq4rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACHB,WAAW,ekBx4rBJ,MAAO,KIBw4rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBx4rBtB,ElBw4rBmD,SkBx4rBnD,CIBw4rBH,C;QACX,QAAQ,C;QACQ,uB;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAARb,CAAJ,C;:QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkBv5rBA,iB;MIBu5rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACHB,WAAW,ekB15rBJ,MAAO,KIB05rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB15rBtB,ElB05rBmD,SkB15rBnD,CIB05rBH,C;QACX,QAAQ,C;QACQ,uB;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAARb,CAAJ,C;:QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkBz6rBA,iB;MIBy6rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACHB,WAAW,ekB56rBJ,MAAO,KIB46rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBnD,CIB46rBH,C;QACX,QAAQ,C;QACQ,uB;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAARb,CAAJ,C;:QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkB37rBA,iB;MIB27rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACHB,WAAW,ekB97rBJ,MAAO,KIB87rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB97rBtB,ElB87rBmD,SkB97rBnD

,CIB87rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkB78rBA,iB;MIB68rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACbB,WAAW,ekBh9rBJ,MAAO,KIBg9rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,CIBg9rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkB/9rBA,iB;MIB+9rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACbB,WAAW,ekBl+rBJ,MAAO,KIBk+rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBl+rBtB,ElBk+rBmD,SkBl+rBnD,CIBk+rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MkBj/rBA,iB;MIBi/rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACbB,WAAW,ekBp/rBJ,MAAO,KIBo/rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBp/rBtB,ElBo/rBmD,SkBp/rBnD,CIBo/rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KafX,C;+EakBA,yB;MAAA,kF;MAAA,gE;MAAA,oC;MkBngsBA,iB;MIBmgsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QACbB,WAAW,ekBtgsBJ,MAAO,KIBsgsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBtgsBtB,ElBsgsBmD,SkBtgsBnD,CIBsgsBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,sBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KafX,C;IAkB A,kC;MAwFI,WkBvmsBO,MAAO,KIBumsBG,gBkVmsBH,ElBshsBH,KAiFkB,OkBvmsBf,C;MIBwmsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WApFqB,GAoFP,UAAK,CAAL,CAPFO,EAAnB,KAoFqB,CAAM,CAAN,CAPFF,CAoFrB,C;;MAPFT,OAsFO,I;K;IANFX,kC;MA8FI,WkBvnsBO,MAAO,KIBunsBG,gBkVnsBH,ElBgisBH,KAuFkB,OkBvnsBf,C;MIBwnsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA1FqB,GA0FP,UAAK,CAAL,CA1FO,EAAnB,KA0FqB,CAAM,CAAN,CA1FF,CA0FrB,C;;MA1FT,OA4FO,I;K;IAzFX,kC;MAoGI,WkBvosBO,MAAO,KIBuosBG,gBkVvosBH,ElB0isBH,KA6FkB,OkBvosBf,C;MIBwosBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAhGqB,GAgGP,UAAK,CAAL,CAhGO,EAAnB,KAgGqB,CAAM,CAAN,CAhGF,CAGrB,C;;MAhGT,OAkGO,I;K;IAFX,kC;MA0GI,WkBvpsBO,MAAO,KIBupsBG,gBkVpsBH,ElBojsBH,KAmGkB,OkBvpsBf,C;MIBwpsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAtGqB,GAsGP,UAAK,CAAL,CATGO,EAAnB,KAsGqB,CAAM,CAAN,CATGF,CAsGrB,C;;MATGT,OAwGO,I;K;IARGX,kC;MAGHI,WkBvqsBO,MAAO,KIBuqsBG,gBkVqsBH,ElB8jsBH,KAyGkB,OkBvqsBf,C;MIBwqsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA5GqB,GA4GP,UAAK,CAAL,CA5GO,EAAnB,KA4GqB,CAAM,CAAN,CA5GF,CA4GrB,C;;MA5GT,OA8GO,I;K;IA3GX,kC;MASHI,WkBvrsBO,MAAO,KIBursBG,gBkBvrsBH,ElBwksBH,KA+GkB,OkBvrsBf,C;MIBwrsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAIHqB,GakHP,UAAK,CAAL,CAIHO,EAAnB,KakHqB,CAAM,CAAN,CAIHF,CakHrB,C;;MAIHT,OAoHO,I;K;IAjHX,kC;MA4HI,WkBvssBO,MAAO,KIBussBG,gBkBvssBH,ElBklsBH,KAqHkB,OkBvssBf,C;MIBwssBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAxHqB,GAwHP,UAAK,CAAL,CAXHO,EAAnB,KAwHqB,CAAM,CAAN,CAXHF,CAwHrB,C;;MAXHT,OA0HO,I;K;IAvHX,kC;MAkII,WkBvtsBO,MAAO,KIButsBG,gBkBvtsBH,ElB4lsBH,KA2HkB,OkBvtsBf,C;MIBwtsBd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA9HqB,GA8HP,sBAAK,CAAL,EA9HO,EA8HE,YA9HrB,KA8HqB,CAAM,CAAN,EA9HF,CA8HrB,C;;MA9HT,OAgIO,I;K;+EA7HX,yB;MAAA,gE;MkBrmsBA,iB;MIBqmsBA,8C;QAQI,WkBvmsBO,MAAO,KIBumsBG,gBkBvmsBH,ElBumsBS,KAAM,OkBvmsBf,C;QIBwmsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBBrnsBA,iB;MIBqnsBA,8C;QAQI,WkBvnsBO,MAAO,KIBunsBG,gBkBvnsBH,ElBunsBS,KAAM,OkBvnsBf,C;QIBwnsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBBrnsBA,iB;MIBqnsBA,8C;QAQI,WkBvosBO,MAAO,KIBuosBG,gBkBvosBH,ElBuosBS,KAAM,OkBvosBf,C;QIB

wosBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAA  
L,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrps  
BA,iB;MIBqpsBA,8C;QAQI,WkBvpsBO,MAAO,KIBupsBG,gBkBvpsBH,ElBupsBS,KAAM,OkBvpsBf,C;QIBwp  
sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,C  
AAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrqsBA  
,iB;MIBqqsBA,8C;QAQI,WkBvqsBO,MAAO,KIBuqsBG,gBkBvqsBH,ElBuqsBS,KAAM,OkBvqsBf,C;QIBwqsBd  
,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAA  
V,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrssBA,iB;  
MIBqrsBA,8C;QAQI,WkBvrsBO,MAAO,KIBursBG,gBkBvrsBH,ElBursBS,KAAM,OkBvrsBf,C;QIBwrsBd,WAA  
W,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EA  
AMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrssBA,iB;MIBq  
ssBA,8C;QAQI,WkBvssBO,MAAO,KIBussBG,gBkBvssBH,ElBussBS,KAAM,OkBvssBf,C;QIBwssBd,WAAW,e  
AAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb  
,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MAAA,oC;MkBrtsBA,iB;  
MIBqtsBA,8C;QAQI,WkBvtsBO,MAAO,KIButsBG,gBkBvtsBH,ElButsBS,KAAM,OkBvtsBf,C;QIBwtsBd,WAA  
W,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,EA  
AMb,kBAAM,CAAN,EAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;IAgBA,4F;MAQ8D,yB;QAAA,YAA0B,I;M  
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K  
;MAAO,yB;QAAA,YAAoC,I;MAGvN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,  
SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IA  
AI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAC,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MA  
EX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAA  
P,C;MACP,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,  
UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MA  
FhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,I  
AAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UA  
CI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UAC  
R,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gB  
AAO,OAAO,M;K;IAGX,8F;MAQyD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,u  
B;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAG  
tN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,  
M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KA  
A1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,  
OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,  
C;MACxC,MAAO,gBAAO,OAAO,M;K;IAGX,8F;MAQuD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAu  
B,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YA  
AsC,I;MAGIN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGb,cAA  
A,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,  
SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,  
OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,  
C;MACxC,MAAO,gBAAO,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;Q  
AAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB  
;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;  
QAAGb,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,  
CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA  
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gB  
AAO,SAAP,C;MACxC,MAAO,gBAAO,OAAO,M;K;IAGX,8F;MAQyD,yB;QAAA,YAA0B,I;M  
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K  
;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;  
QAAGb,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,  
CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA  
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gB  
AAO,SAAP,C;MACxC,MAAO,gBAAO,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;M  
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K

;MAAO,yB;QAAA,YAAwC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAGB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAGB,SAAhB,gB;QAAGB,cAAhB,UAAgB,SAAhB,O;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,oBAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAP,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,0F;MAQyC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MACIN,OAAO,kBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MACHN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQiC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAc,I;MAC5M,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MACHN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQoC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MACIN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQqC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MACpN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;IAG5F,4F;MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,y



B;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,SAAXB,EAAmC,M  
AAnc,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAASe,SAATe,CAAIeF,W;K;IAQxE,4C;MAAA,mB;Q  
AAE,OAAK,qBAAL,eAAK,C;O;K;IAL3B,+B;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAA  
gB,4BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,C  
Aklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,  
C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;M  
AAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MA  
CTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO  
,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,0BA  
AL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAhB,C;K;IA  
QgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAA  
O,W;MACTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,4BAAL,eAAK,C;O;K;IAL3B,iC;MA  
II,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OA  
AK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACTB,kCAAgB,8BAAh  
B,C;K;IAUgB,4C;MAAA,mB;QAAE,OAAK,qBAAL,eAAK,C;O;K;IAP3B,+B;MAMI,IA5peO,qBAAQ,CA4pef,C  
;QAAe,OAAO,e;MACTB,kCAAgB,4BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IA  
P3B,iC;MAMI,IA9peO,qBAAQ,CA8pef,C;QAAe,OAAO,e;MACTB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,m  
B;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAhqeO,qBAAQ,CAgqef,C;QAAe,OAAO,e;MACTB,kC  
AAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAIqeO,qBA  
AQ,CAkqef,C;QAAe,OAAO,e;MACTB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eA  
AK,C;O;K;IAP3B,iC;MAMI,IAppeO,qBAAQ,CAoqef,C;QAAe,OAAO,e;MACTB,kCAAgB,8BAAhB,C;K;IAUgB,  
8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAtqeO,qBAAQ,CAsqef,C;QAAe,OAAO,e  
;MACTB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,I  
AxqeO,qBAAQ,CAwqef,C;QAAe,OAAO,e;MACTB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAA  
K,4BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAIqeO,qBAAQ,CA0qef,C;QAAe,OAAO,e;MACTB,kCAAgB,8BAAh  
B,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IA5qeO,qBAAQ,CA4qef,C;  
QAAe,OAAO,e;MACTB,kCAAgB,8BAAhB,C;K;IAGJ,4B;MAOoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MA  
CjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,G  
AAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,  
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,  
wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,wB  
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wC  
AAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,wBAA  
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCA  
AO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,wBAAgB,  
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,  
IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,wBAAgB,  
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,  
IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAakB,G;MACIB,YAAiB,C;MACjB,wBAAgB,SA  
AhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IA

AvB,GAAgC,MAAM,K;K;IAGjD,+B;MAMoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAAS,CAAb,GAAGB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,wB;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,Y;MACA,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OA AO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,Y;MACA,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAKoB,Q;MADhB,UAAkB,G;MACIB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;Ia5uuBX,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;4FOOA,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;IAGX,wC;MAII,IAAI,oCAAJ,C;QACI,OAAO,yBAAS,OAAT,C;MACX,OA AO,qBAAQ,OAAR,KAAoB,C;K;IAWG,yC;MAAA,qB;QAAE,MAAM,8BAA0B,iDAA8C,aAA9C,MAA1B,C;O;K;IAR1C,qC;MAMI,IAAI,8BAAJ,C;QACI,OAAO,sBAAI,KAAJ,C;MACX,OAAO,6BAAgB,KAAhB,EAAuB,uBAAvB,C;K;0FAGX,4B;MAOI,OAAO,sBAAI,KAAJ,C;K;IAGX,2D;MACqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OAAsB,KA4Lf,IAAS,CAAT,IA5Le,KA4LD,IAAS,iBA5LvB,SA4LuB,CAA3B,GA5LI,SA4LkC,aA5LnB,KA4LmB,C AAtC,GA5L0B,YA4L4B,CA5LnC,KA4LmC,C;OA3L7D,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAb,C;M ACX,eAAe,oB;MACf,YAAy,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,Y AAT,EAAS,oBAAT,OA AJ,C;UACI,OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;sGAGX,yB;MAAA,8D;MAAA,i D;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,sBAAI,KAAJ,CAATC,GAAsD,aAAa,KAAb,C;O;K APjE,C;IAUA,6C;MACqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OAAy,YAAL,SAAK,EAAU,KAAV,C;MACHB,IAA I,QAAQ,CAAZ,C;QACI,OAAO,I;MACX,eAAe,oB;MACf,YAAy,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAA c,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OA AJ,C;UACI,OAAO,O;;MAEf,OAAO,I;K;sGAGX,yB; MAAA,sD;MAAA,mC;QAOI,OAAy,UAAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;gFAUA,gC;MAOW,sB;;QAU HS,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAGB,yB;UAAM,IAvHH,SAuHO,CAAU,OA AV,CAAJ,C;YAAw B,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;MAxHP,yB;K;wFAGJ,gC;MA2VoB,Q;MADhB,WAAe,I;MACC,2B; MAAhB,OAAGB,cAAhB,C;QAAgB,yB;QACZ,IARVc,SAqVV,CAAU,OA AV,CAAJ,C;UACI,OAAO,O;;MatVf, OAyVO,I;K;wFAtVX,gC;MAOW,qB;;QAwVP,eAAoB,+BAAa,cAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI, cAAc,QAAS,W;UACvB,IA3Vc,SA2VV,CAAU,OA AV,CAAJ,C;YAAwB,oBAAO,O;YAAP,sB;;QAE5B,oBAAO, I;;MA7VP,wB;K;IAGJ,6B;MAMQ,kBADE,SACF,Q;QAAW,OAAy,SAAL,SAAK,C;;QAE5B,eAAe,oB;QACf,I AAI,CAAC,QAAS,UAAAd,C;UACI,MAAM,2BAAuB,sBAAvB,C;QACV,OAAO,QAAS,O;;K;IAK5B,6B;MAKI,I AAI,mBAAJ,C;QACI,MAAM,2BAAuB,gBAAvB,C;MACV,OAAO,sBAAK,CAAL,C;K;mFAGX,yB;MAAA,iE; MAAA,uC;QAKoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAGB,yB;UAAM,IAAI,UAAU,OA AV,CAAJ,C;Y AAwB,OAAO,O;;QACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,iE;MAAA,uC;QASW, Q;QAAA,+B;;UAYS,U;UAAA,6B;UAAhB,OAAGB,gBAAhB,C;YAAgB,2B;YACZ,aAbwB,SAaX,CAAU,OA AV ,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;QAIbA,kC;QAAA,iB;UAAmC,MAAM,g CA AuB,mEAAvB,C;SAAhD,OAAO,I;O;KATX,C;gHAYA,gC;MASoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C ;QAAgB,yB;QACZ,aAAa,UAAU,OA AV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,mC; MAKQ,kBADE,SACF,Q;QACI,IAAI,mBAAJ,C;UACI,OAAO,I;UAEP,OAAO,sBAAK,CAAL,C;;QAGX,eAAe,o B;QACf,IAAI,CAAC,QAAS,UAAAd,C;UACI,OAAO,I;QACX,OAAO,QAAS,O;;K;IAK5B,mC;MAII,OAAW,mBA

AJ,GAAe,IAAf,GAAYB,sBAAK,CAAL,C;K;+FAGpC,gC;MAIoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QA  
AgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;0FAGX,yB;MAAA,8D;M  
AAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,sBAAL,KAJ,CAAtC,GAAsD,aAAa,KAAb,  
C;O;KALjE,C;IAQA,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,2BAA3B,GAAsC,sBAAL,KAJ,CAAtC,GAA  
sD,I;K;IAGjE,uC;MAMiB,Q;MAFb,IAAI,8BAAJ,C;QAAkB,OAAO,SAAK,eAAQ,OAAR,C;MAC9B,YAAY,C;M  
ACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UA  
CI,OAAO,K;QACX,qB;;MAEJ,OAAO,E;K;IAGX,uC;MAKI,OAAO,wBAAQ,OAAR,C;K;gGAGX,yB;MAAA,w  
E;MAAA,uC;QAKiB,Q;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,  
C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,OAAO,K;UACX,qB;;QAEJ,OAAO,E;O;KAXX,C;gGAcA,gC;MAK  
iB,Q;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,UAAU,IAAV,CAAJ,C;UACI,OA  
AO,K;QACX,qB;;MAEJ,OAAO,E;K;8FAGX,yB;MAAA,wE;MAAA,uC;QAMiB,Q;QAFb,gBAAGB,E;QChB,Y  
AAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,C;UACA,IAAI,UAAU,IAAV,CA  
AJ,C;YACI,YAAY,K;UACHb,qB;;QAEJ,OAAO,S;O;KAZX,C;8FAeA,gC;MAII,eAAe,SAAK,sBAAa,cAAb,C;M  
ACpB,OAAO,QAAS,cAAhB,C;QACI,IAAI,UAAU,QAAS,WAAnB,CAAJ,C;UACI,OAAO,QAAS,Y;;MAGxB,O  
AAO,E;K;IAGX,4B;MASQ,kBADE,SACF,Q;QAAW,OAAY,QAAL,SAAK,C;;QAEEnB,eAAe,oB;QACf,IAAI,CA  
AC,QAAS,UAAAd,C;UACI,MAAM,2BAAUb,sBAAvB,C;QACV,WAAW,QAAS,O;QACpB,OAAO,QAAS,UAAh  
B,C;UACI,OAAO,QAAS,O;QACpB,OAAO,I;;K;IAKnB,4B;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAUb,gBA  
AvB,C;MACV,OAAO,sBAAK,2BAAL,C;K;iFAGX,yB;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAUoB,U  
AQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,O  
AAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,wDAA  
vB,C;QAEIB,OAAO,2E;O;KAIBX,C;iFAqBA,yB;MAAA,iE;MAAA,uC;QAQI,eAAe,SAAK,sBAAa,cAAb,C;QA  
CpB,OAAO,QAAS,cAAhB,C;UACI,cAAc,QAAS,W;UACvB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;Q  
AEnC,MAAM,gCAAuB,kDAAvB,C;O;KAbV,C;IAGBA,2C;MAOIb,Q;MAHb,IAAI,8BAAJ,C;QAAkB,OAAO,S  
AAK,mBAAy,OAAZ,C;MAC9B,gBAAGB,E;MACHB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA  
CT,mBAAmB,KAAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UACI,YAAY,K;QChB,qB;;MAEJ,OAAO,S;K;I  
AGX,2C;MAKI,OAAO,4BAAy,OAAZ,C;K;IAGX,kC;MAOQ,kBADE,SACF,Q;QAAW,OAAW,mBAAJ,GAAe,I  
AAf,GAAYB,sBAAK,iBAAO,CAAP,IAAL,C;;QAEvC,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UACI,OAA  
O,I;QACX,WAAW,QAAS,O;QACpB,OAAO,QAAS,UAAhB,C;UACI,OAAO,QAAS,O;QACpB,OAAO,I;;K;IAK  
nB,kC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAYB,sBAAK,iBAAO,CAAP,IAAL,C;K;6FAGpC,gC;MAOoB,Q;  
MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,  
OAAO,O;;MAGf,OAAO,I;K;6FAGX,gC;MAMI,eAAe,SAAK,sBAAa,cAAb,C;MACpB,OAAO,QAAS,cAAhB,C;  
QACI,cAAc,QAAS,W;QACvB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MAEnC,OAAO,I;K;qFAGX,yB  
;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;MAOI,IAAI,mBAAJ,C  
;QACI,MAAM,2BAAUb,sBAAvB,C;MACV,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAJB,C;K;iGAGX,yB;MA  
AA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QA  
CI,OAAO,I;MACX,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAJB,C;K;IAGX,8B;MAKQ,kBADE,SACF,Q;QAA  
W,OAAY,UAAAL,SAAK,C;;QAEEnB,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UACI,MAAM,2BAAUb,sBAA  
vB,C;QACV,aAAa,QAAS,O;QACtB,IAAI,QAAS,UAAb,C;UACI,MAAM,gCAAYB,uCAAzB,C;QACV,OAAO,M  
;;K;IAKnB,8B;MAIiB,IAAN,I;MAAA,QAAM,cAAN,C;aACH,C;UAAK,MAAM,2BAAUb,gBAAvB,C;aACX,C;  
UAAK,6BAAK,CAAL,C;UAAAL,K;gBACQ,MAAM,gCAAYB,iCAAzB,C;;MAHIB,W;K;qFAOJ,yB;MAAA,kF;M  
AAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QACI,2B;QAAh  
B,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,MAAM,8BA  
AyB,qDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,wD  
AAvB,C;QAEIB,OAAO,6E;O;KAFx,C;IAkBA,oC;MAKQ,kBADE,SACF,Q;QAAW,OAAW,mBAAQ,CAAZ,GA  
Ae,sBAAK,CAAL,CAAf,GAA4B,I;;QAEIC,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UACI,OAAO,I;QACX  
,aAAa,QAAS,O;QACtB,IAAI,QAAS,UAAb,C;UACI,OAAO,I;QACX,OAAO,M;;K;IAKnB,oC;MAII,OAAW,mB  
AAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;iGAGvC,gC;MAMoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,  
K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAJ,C;Y

AAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAA  
O,M;K;IAGX,8B;MAoBsC,UAGT,MAHS,EAarB,M;MN7pBb,IAAI,EMooBI,KAAK,CNpoBT,CAAJ,C;QACI,cM  
moBc,sD;QNloBd,MAAM,gCAAYB,OAAQ,WAAjC,C;OMmoBV,IAAI,MAAK,CAAT,C;QAAY,OAAO,mB;MA  
CnB,Q;MACA,IAAI,oCAAJ,C;QACI,iBAAiB,iBAAO,CAAP,I;QACjB,IAAI,cAAc,CAAlB,C;UACI,OAAO,W;Q  
ACX,IAAI,eAAc,CAAlB,C;UACI,OAAO,OAAO,kBAAP,C;QACX,OAAO,iBAAa,UAAb,C;QACP,IAAI,8BAAJ,  
C;UACI,IAAI,sCAAJ,C;YAC0B,qB;YAAtB,iBAAc,CAAd,wB;cACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;;YAE  
I,wCAAA,CAAb,C;YAAb,OAAa,gBAAb,C;cAAa,wB;cACT,IAAK,WAAI,IAAJ,C;;;UAEb,OAAO,I;;QAIx,OAA  
O,gB;;MAEX,YAAY,C;MACC,6B;MAAb,OAAa,gBAAb,C;QAAa,0B;QACT,IAAI,SAAS,CAAb,C;UAAgB,IAA  
K,WAAI,MAAJ,C;;UAAe,qB;;MAExC,OAAy,qBAAL,IAAK,C;K;IAGhB,kC;MNnqBI,IAAI,EM2qBI,KAAK,C  
N3qBT,CAAJ,C;QACI,cM0qBc,sD;QNzqBd,MAAM,gCAAYB,OAAQ,WAAjC,C;OM0qBV,OAAO,kBAAgB,gB  
AAV,iBAAO,CAAP,IAAU,EAAC,CAAd,CAAhB,C;K;kGAGX,yB;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,IAA  
I,CAAC,mBAAL,C;UACI,eAAe,+BAAa,cAAb,C;UACf,OAAO,QAAS,cAAhB,C;YACI,IAAI,CAAC,UAAU,QA  
AS,WAAAnB,CAAL,C;cACI,OAAO,gBAAK,QAAS,YAAT,GAAuB,CAAvB,IAAL,C;;SAInB,OAAO,W;O;KAdX,  
C;0FAiBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb  
,C;UAAa,sB;UACT,IAAI,QA AJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD  
,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAE nB,OAAO,I;O;KafX,C;oFAkBA,yB;MAAA,+D;MAAA,uC;QAM  
W,kBAAS,gB;QA2FA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3FU,SA2FN,CAAU,OAA  
V,CAAJ,C;YAAwB,WAAy,WAAI,OAAJ,C;;QA3F1D,OA4FO,W;O;KAIGX,C;kGASA,yB;MAAA,+D;MA6jCA,  
wE;MA7jCA,uC;QAQW,kBAAgB,gB;QA4jCV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;  
UAhjCT,IAZmC,SAY/B,CAGjCkB,oBAAmB,cAAnB,EAAMb,sBAAnB,UAhjCIB,EAjC+C,IAhjC/C,CAAJ,C;Y  
AA2C,sBAgjCQ,IAhjCR,C;;QAZ/C,OAcO,W;O;KATBX,C;sGAWA,yB;MAkjCA,wE;MALjCA,oD;QAYjCiB,gB;Q  
ADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAhjCT,IAAI,UAgjCkB,oBAAmB,cAAnB,EAAMb,s  
BAAnB,UAhjCIB,EAjC+C,IAhjC/C,CAAJ,C;YAA2C,sBAgjCQ,IAhjCR,C;;QAE/C,OAAO,W;O;KAXX,C;wGA  
cA,yB;MAAA,+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;  
UAAM,IAAI,YAAJ,C;YAAkB,WAAy,WAAI,OAAJ,C;;QATpD,OAuO,W;O;KAhBX,C;4GASA,4C;MAMoB,Q;  
MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,YAAJ,C;UAAkB,WAAy,WAAI,OAAJ,C;;MA  
CpD,OAAO,W;K;0FAGX,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QA4BH,Q;QAAA,2B;QAAhB,OAAgB  
,cAAhB,C;UAAgB,yB;UAAM,IAAI,CA5BS,SA4BR,CAAU,OAAV,CAAL,C;YAAyB,WAAy,WAAI,OAAJ,C;;Q  
A5B3D,OA6BO,W;O;KANCX,C;IASA,oC;MAMI,OAAO,6BAAGB,gBAAhB,C;K;IAGX,mD;MAMoB,Q;MAAA,  
2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,eAAJ,C;UAAqB,WAAy,WAAI,OAAJ,C;;MACvD,OA  
AO,W;K;8FAGX,6C;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,CAAC,UAAU  
,OAAV,CAAL,C;UAAyB,WAAy,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAA,2B;MA  
AhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAy,WAAI,OAAJ,C;;MA  
C1D,OAAO,W;K;IAGX,sC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,Od3wBe,W;Oc4wBtC,OAA6D,SAAtD,SAAK,i  
BAAQ,OAAQ,MAAhB,EA AuB,OAAQ,aAAR,GAAuB,CAAvB,IAAvB,CAAiD,C;K;IAGjE,sC;MAOkB,Q;MAH  
d,WAAmB,wBAAR,OAAQ,EA AwB,EA AxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QA Ae,OAAO,W;MACTB,WAA  
W,iBAAa,IAAb,C;MACG,yB;MAAd,OAAc,cAAd,C;QA Ac,uB;QACV,IAAK,WAAI,sBAAL,KA AJ,CAAJ,C;;MA  
ET,OAAO,I;K;IAGX,8B;MAGBiB,Q;MN51Bb,IAAI,EMo1BI,KAAK,CNp1BT,CAAJ,C;QACI,cMm1Bc,sD;QN11  
Bd,MAAM,gCAAYB,OAAQ,WAAjC,C;OMm1BV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,oCA  
AJ,C;QACI,IAAI,KAAK,cAAT,C;UAAe,OAAO,mB;QACtB,IAAI,MAAK,CAAT,C;UAAy,OAAO,OAAO,mBA  
AP,C;OAEvB,YAAY,C;MACZ,WAAW,iBAAa,CAAb,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAA  
K,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAF,C;UACI,K;;MAER,OAAy,qBAAL,IAAK,C;K;IAGhB,kC;MAeqC  
,IAGhB,I;MNt3BjB,IAAI,EM42BI,KAAK,CN52BT,CAAJ,C;QACI,cM22Bc,sD;QN12Bd,MAAM,gCAAYB,OAA  
Q,WAAjC,C;OM22BV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,  
C;QA Ae,OAAO,mB;MACTB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,kBAAP,C;MACnB,WAAW,iBAAa,C  
AAb,C;MACX,IAAI,sCAAJ,C;QACI,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;UACI,IAAK,WAAI,sBAAK  
,KAAL,CAAJ,C;;QAEI,sCAAa,OAAO,CAAP,IAAb,C;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAK,WAAI,IAA  
J,C;;MAEb,OAAO,I;K;kGAGX,yB;MAAA,qD;MAAA,gE;MAAA,gD;MAAA,uC;QAMI,IAAI,mBAAJ,C;UACI,

OAAO,W;QACX,eAAe,+BAAa,cAAb,C;QACf,OAAO,QAAS,cAAhB,C;UACI,IAAI,CAAC,UAAU,QAAS,WAA nB,CAAL,C;YACI,QAAS,O;YACT,mBAAmB,iBAAO,QAAS,YAAhB,I;YACnB,IAAI,iBAAGB,CAApB,C;cAAu B,OAAO,W;YACI,kBAA3B,eAAa,YAAb,C;YACH,OAAgB,kBAAhB,C;cACI,sBAAa,eAAb,C;YAFR,OH11BD, W;;QGg2BP,OAAO,iB;O;KApBX,C;0FAuBA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACE,2B ;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ, C;;QAET,OAAO,I;O;KAZX,C;IAoBA,+B;MAII,IAAI,wCAAsB,kBAAQ,CAAlC,C;QAAqC,OAAO,mB;MAC5C, WAAW,0B;MACN,WAAI,IAAK,C;MACL,OAAO,I;K;IAGX,uC;MAOI,aAAU,2BAAV,OAA2B,CAA3B,M;QA CI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,sBAAK,CAAL,EAAU,SAAK,aAAI,CAAJ,EAAO,sBAAK, CAAL,CAAP,CAAf,C;;K;oFAIR,yB;MAAA,oD;MJn4BA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B ;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B ,C;W;S;OA4DI,C;MI43Bf,sC;QAMI,IAAI,iBAAO,CAAX,C;UAAc,oBJl4Bd,eAAW,iBIk4BsB,QJl4BtB,CAAX,CI k4Bc,C;U;KANIB,C;wGASA,yB;MAAA,oD;MJz3BA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;U AAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C; W;S;OA+EI,C;MIk3Bf,sC;QAMI,IAAI,iBAAO,CAAX,C;UAAc,oBJx3Bd,eAAW,2BIw3BgC,QJx3BhC,CAAX,CI w3Bc,C;U;KANIB,C;IASA,sC;MAMI,sBAAS,cAAT,C;K;IAGJ,6B;MASgB,Q;MAHZ,IAAI,oCAAJ,C;QACI,IAA I,kBAAQ,CAAZ,C;UAAe,OAAY,SAAL,SAAK,C;QAEwB,kBAA3C,sBC5+BsD,sBD4+BtD,uB;QAAmD,mB;QA A3D,OAAoE,OHI7BjE,WGk7BiE,C;OAEjD,kBAAhB,0B;MAAwB,oB;MAA/B,OHp7BO,W;K;wFGu7BX,yB;M AAA,wD;MJ56BA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB ,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MIq6Bf,sC;QAQI,O AAO,sBJ76BP,eAAW,iBI66BiB,QJ76BjB,CAAX,CI66BO,C;O;KARX,C;4GAWA,yB;MAAA,wD;MJp6BA,sC;M AAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,C A/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MI65Bf,sC;QAMI,OAAO,sBJn6BP,eAAW,2BI m6B2B,QJn6B3B,CAAX,CI66BO,C;O;KANX,C;IASA,uC;MAMI,OAAO,wBAAW,cAAX,C;K;IAGX,6C;MASE, Q;MAHX,IAAI,oCAAJ,C;QACG,IAAI,kBAAQ,CAAZ,C;UAAe,OAAY,SAAL,SAAK,C;QAEe,kBAAlC,sBCvhC uD,sBDuhCvD,uB;QAA0C,iC;QAAID,OAAyE,OH79BrE,WG69BqE,C;OAErD,kBAAhB,0B;MAAwB,mC;MAA/ B,OH/9BO,W;K;IGk+BX,qC;MAMoB,UACL,M;MAHX,aAAa,oBAAa,cAAb,C;MACb,YAAy,C;MACI,2B;MAA hB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;IAGX,k C;MAMoB,UACL,M;MAHX,aAAa,cAAU,cAAV,C;MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAA gB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;IAGX,kC;MAMoB,UACL,M;MAH X,aAAa,iBAAU,cAAV,C;MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,oC;QACZ,OAAO,cAA P,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;IAGX,oC;MAMoB,UACL,M;MAHX,aAAa,iBAAY,cAAZ,C; MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB, O;;MACTB,OAAO,M;K;IAGX,mC;MAMoB,UACL,M;MAHX,aAAa,iBAAW,cAAX,C;MACb,YAAy,C;MACI,2 B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;I AGX,iC;MAMoB,UACL,M;MAHX,aAAa,eAAS,cAAT,C;MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C ;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;IAGX,kC;MAMoB,UACL,M; MAHX,aAAa,iBAAU,cAAV,C;MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAA O,cAAP,EAAO,sBAAP,YAAkB,O;;MACTB,OAAO,M;K;IAGX,mC;MAMoB,UACL,M;MAHX,aAAa,eAAW,cA AX,C;MACb,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,Y AAKB,O;;MACTB,OAAO,M;K;0FAGX,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAA wD,cAAzC,YAAy,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EAAc,C;QACjD,kBAAY,mBAAoB,QAAPB,C;QA yEH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA1E8C,SA0E/B,CAAU,OAAV,C;UbpkBnB, wBAAI,IAAK,MAAT,EAAgB,IAAK,OAAR,C;;Qa0fA,OA4EO,W;O;KAxFX,C;+FAeA,yB;MAAA,kF;MAAA,0 D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAwD,cAAzC,YAAy,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EA Ad,C;QACjD,kBAAc,mBAAoB,QAAPB,C;QA2BL,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ, WAAy,aA5BoC,WA4BhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QA5BhB,OA8BO,W;O;KA1CX,C;+FAeA,y B;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAU,eAAwD,cAAzC,YAAy,mCAAwB,EAAxB,C AAZ,CAAyC,EAAc,EAAc,C;QACjD,kBAAc,mBAAoB,QAAPB,C;QA6BL,Q;QAAA,2B;QAAhB,OAAgB,cAAh

B,C;UAAgB,yB;UACZ,WAAY,aA9BoC,WA8BhC,CAAy,OAAZ,CAAJ,EA9BiD,cA8BvB,CAAe,OAAf,CAA1B,C;;QA9BhB,OA9CO,W;O;KA3CX,C;mGAcA,+C;MAUoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,WAAe,UAAU,OAAV,C;QbpbBnB,wBAAI,IAAK,MAAT,EAAGB,IAAK,OAARb,C;;MaskBA,OAAO,W;K;kGAGX,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAYI,aAAa,mBAA6D,cAAzC,YAAY,mCAAwB,EAAXB,CAAZ,CAAyC,EAAC,EAAD,CAA7D,C;QAcG,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAbO,MAcP,aAAI,OAAJ,EAd,eAcF,CAAc,OAAd,CAAb,C;;QAdhB,OAaB,M;O;KAb3B,C;sGAgBA,iD;MAUoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAA,sB;QACT,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gC;MAII,OAAO,0BAAa,eAAW,YAAY,mCAAwB,EAAXB,CAAZ,CAAX,CAAb,C;K;IAGX,6B;MAKqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,kB;YAAL,K;eACA,C;YAAK,cAAW,8BAAJ,GAaKB,sBAAI,CAAJ,CAAIB,GAA8B,oBAAW,OAAhD,C;YAAL,K;kBA Ca,uBAAL,SAAK,C;YAHV,K;;QAAP,W;OAMJ,OAA4B,qBAAhB,gBAAL,SAAK,CAAGB,C;K;IAGhC,oC;MAII,IAAI,oCAAJ,C;QACI,OAAy,gBAAL,SAAK,C;MACHB,OAAO,0BAAa,gBAAb,C;K;IAGX,oC;MAII,OAAO,iBAAU,SAAV,C;K;IAGX,4B;MAOqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAaKB,sBAAK,CAAL,CAAIB,GAA+B,oBAAW,OAAhD,C;YAAL,K;kBACQ,iCAAa,qBAAiB,YAAY,cAAZ,CAAjB,CAAb,C;YAhL,K;;QAAP,W;OAMJ,OAAwC,oBAAjC,0BAAa,sBAAb,CAAiC,C;K;sFAG5C,yB;MAAA,+D;MAwFA,gD;MAxFA,uC;QAMW,kBAAU,gB;QAsFD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAvF6B,SAuFIB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxFhB,OA0FO,W;O;KAhGX,C;uFASA,yB;MAAA,+D;MA0FA,gD;MA1FA,uC;QAUW,kBAAU,gB;QAwFD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WazF6B,SAyFIB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1FhB,OA4FO,W;O;KAtGX,C;oGAaA,yB;MAAA,+D;MA8BA,wE;MAAA,gD;MA9BA,uC;QAYW,kBAAiB,gB;QA6BR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WA9BoC,SA8BzB,CAAU,oBAAmB,cAAAnB,EAAMb,sBAAnB,UAAV,EAaUc,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA/BhB,OAiCO,W;O;KA7CX,C;oGAeA,yB;MAAA,+D;MAiCA,wE;MAAA,gD;MAjCA,uC;QAYW,kBAAiB,gB;QAgCR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAjCoC,SAiCzB,CAAU,oBAAmB,cAAAnB,EAAMb,sBAAnB,UAAV,EAaUc,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAiChB,OAoCO,W;O;KAhDX,C;wGAeA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAWoB,UAC4B,M;QAF5C,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,cAAAnB,EAAMb,sBAAnB,UAAV,EAaUc,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;yGakBA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAWoB,UAC4B,M;QAF5C,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,cAAAnB,EAAMb,sBAAnB,UAAV,EAaUc,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;0FAkBA,yB;MAAA,gD;MAAA,oD;QAIOB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;2FAWA,yB;MAAA,gD;MAAA,oD;QAQoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAZX,C;uFAeA,yB;MAAA,wE;MAyBA,+D;MAzBA,yC;QASW,kBAAU,oB;QAYBD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UA1BiD,WA0BvC,CAAy,OAAZ,C;UbnvCP,U;UADP,YaynCe,WbznCH,WaynCwB,GbznCxB,C;UACL,IAAI,aAAJ,C;YACH,aaunCuC,gB;YAA5B,WbznCX,aaunCuC,GbznChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UamnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5BT,OA8BO,W;O;KAvCX,C;uFAYA,yB;MAAA,wE;MA8BA,+D;MA9BA,yD;QAUW,kBAAU,oB;QA8BD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UA/BiD,WA+BvC,CAAy,OAAZ,C;UbnvCP,U;UADP,Ya2oCe,Wb3oCH,WA2oCwB,Gb3oCxB,C;UACL,IAAI,aAAJ,C;YACH,aaunCuC,gB;YAA5B,WbxoCX,aaunCuC,GbxoChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UaqoCA,iB;UACA,IAAK,WAjCyD,cAiCrD,CAAe,OAAf,CAAJ,C;;QAJCT,OAmCO,W;O;KA7CX,C;0FAaA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;UbnvCP,U;UADP,YaynCe,WbznCH,WaynCwB,GbznCxB,C;UACL,IAAI,aAAJ,C;Y

ACH,aaunCuC,gB;YAA5B,WbtnCX,aasnCgC,GbtnChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UamnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KADX,C;2FAiBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAAY,OAAZ,C;UbzoCP,U;UADP,Ya2oCe,Wb3oCH,Wa2oCwB,Gb3oCxB,C;UACL,IAAI,aAAJ,C;YACH,aayoCuC,gB;YAA5B,WbxoCX,aawoCgC,GbxoChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UaqoCA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;4FAkBA,yB;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAA6C,OAAA,oBAAgB,W;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;8EAca,yB;MAAA,kF;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,mCAAwB,EAAXB,CAAb,C;QAUeA,Q;QAAA,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAAY,WAXEwC,SAwEpC,CAAU,IAAV,CAAJ,C;;QAXEhB,OAYEO,W;O;KAhFX,C;4FAUA,yB;MAAA,kF;MAAA,gE;MA+BA,wE;MA/BA,uC;QAOW,kBAaA,eAAa,mCAAwB,EAAXB,CAAb,C;QAGCP,gB;QADb,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAAY,WAJC+C,SAiC3C,CAAU,oBAAmB,cAAnB,EAAMB,sBAAnB,UAAV,EAAC,IAAV,C,CAAJ,C;;QAJChB,OAKCO,W;O;KAZCX,C;0GAUA,yB;MAAA,+D;MAoSA,wE;MApSA,uC;QAOW,kBAaOB,gB;QAOsD,gB;QADb,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA1RSB,U;UAAA,cAVQ,SAUR,CAORT,oBAAmB,cAAnB,EAAMB,sBAAnB,UA1RS,EAORoB,IA1RpB,W;YAA6C,6B;;QAVhF,OAWO,W;O;KAIBX,C;8GAUA,yB;MA0RA,wE;MA1RA,oD;QAIsiB,gB;QADb,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA1RSB,U;UAAA,wBAORT,oBAAmB,cAAnB,EAAMB,sBAAnB,UA1RS,EAORoB,IA1RpB,W;YAA6C,6B;;QACHf,OAAO,W;O;KARX,C;+FAWA,yB;MAAA,wE;MAAA,oD;QAQiB,UACoC,M;QAFjD,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAAY,WAAI,UAAU,oBAAmB,cAAnB,EAAMB,sBAAnB,UAAV,EAAC,IAAV,C,CAAJ,C;;QACHB,OAAO,W;O;KAVX,C;4FAaA,yB;MAAA,+D;MAAA,uC;QAOW,kBAaA,gB;QAWPJ,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAhPK,U;UAAA,cARe,SAQf,CAgPQ,OAhPR,W;YAAAsC,6B;;QAR3D,OASO,W;O;KAhBX,C;gGAUA,yB;MAAA,oD;QAqPoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAhPK,U;UAAA,wBAGPQ,OAhPR,W;YAAAsC,6B;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAAY,WAAI,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;IAQiB,4C;MAAA,mB;QAAE,gC;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAGX,+B;MASI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;4FAG/B,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACD,2B;QAAV,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAjBX,C;IAoBA,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAU,KAAY,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAL,EAU,KAAY,C;MACJ,OAAO,G;K;IAGX,mC;MAMiB,IAAN,I;MACH,kBADs,SACT,c;QAAoB,4BAAc,SAAd,C;;QACZ,iCAaA,sBAAb,C;MAFZ,W;K;IAMJ,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAL,EAU,KAAP,C;MACJ,OAAO,G;K;8EAGX,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;YAAyB,OAAO,K;;QACtD,OAAO,I;O;KARX,C;IAWA,2B;MAMI,IAAI,oCAAJ,C;QAAwB,OAAO,CAAC,mB;MACHC,OAAO,oBAAW,U;K;+EAGtB,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,K;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,I;QACrD,OAAO,K;O;KARX,C;IAWA,6B;MAMoB,Q;MAFhB,IAAI,oCAAJ,C;QAAwB,OAAO,c;MAC/B,YAAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,oBAAmB,qBAAnB,EAAMB,KAAAnB,E;;MACtB,OAAO,K;K;mFAGX,qB;MAKI,OAAO,c;K;mFAGX,yB;MAAA,gD;MAAA,wE;MAAA,uC;QAMoB,Q;QAFhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,C;QAC5C,YAAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAmB,qBAAnB,EAAMB,KAAAnB,E;;QAC9C,OAAO,K;O;KAPX,C;gFAUA,yC;MAUoB,Q;MADhB,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,UAAU,WAAV,EAAC,UAAV,C;;MACpC,OAAO,W;K;8FAGX,yB;MAAA,wE;MAAA,gD;QAYoB,UAAiD,M;QAFjE,YAAAY,C;QACZ,kBAakB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,cAAc,UAAU,oBAAmB,cAAnB,EAAMB,sBAAnB,UAAV,EAAC,WAAV,C,EAAD,OAApD,C;;QACpC,OAAO,W;O;KAbX,C;0FAGBA,yC;MASI,kBAakB,O;MACIB,IAAI,CAAC,mBAAL,C;QACI,eAAe,+BAAa,cAAb,C;QACf,OAAO,QAAAS,cAAhB,C;UACI,cAAc,UAAU,QAAAS,WAAAnB,EAAB,WAA/B,C;;OAGtB,OAAO,W;K;wGAGX,yC;MAUI,kBAakB,O;MACIB,IAAI,CAAC,mBAAL,C;QACI,eAAe,+BAAa,cAAb,C;QACf,OAAO,QAAAS,cAAhB,C;UACI,Y

AAy,QAAS,gB;UACrB,cAAc,UAAU,KAaV,EAAiB,QAAS,WAA1B,EAAcC,WAAtC,C;;OAGtB,OAAO,W;K;s  
FAGX,6B;MAKoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;K;oGAG1B,y  
B;MAAA,wE;MAAA,oC;QAOiB,UAAgC,M;QAD7C,YAAy,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAA  
M,OAAO,oBAAmB,cAAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAAPC,C;;O;KAPvB,C;IAUA,0B;MAII,OAAO,sB  
;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;kFAGX,+B;MAGW,sB;;QAUP,eAAe,oB;QACf,I  
AAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,U  
AAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAdmB,QAcJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,Q  
AjBe,QAiBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,  
QAAT,QAAS,W;QACIB,qBAAO,O;;MAvBP,yB;K;8FAGJ,+B;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAA  
d,C;QAAYB,OAAO,I;MACHc,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,OAAO,O;MACHc,  
eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KA  
AJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MACIB,OAAO,O;K;mFAGX,yB;MAAA,sE;M  
F/yDA,iB;ME+yDA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,S  
AAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WFzzDG,M  
AAO,KEyzDO,QFzzDP,EEyzDiB,CFzzDjB,C;;QE2zDd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MFj1DA  
,iB;MEi1DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,Q  
AAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF31DG,MAAO,  
KE21DO,QF31DP,EE21DiB,CF31DjB,C;;QE61Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAAA,sC;Q  
AWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;Q  
ACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YAC  
I,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFp3DA,iB;MEo3DA,sC;QAWI,eAAe,oB;QACf,IAAI  
,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QACHc,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C  
;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF53DG,MAAO,KE43DO,QF53DP,EE43DiB,CF53DjB,C;;QE83  
Dd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MFp5DA,iB;MEo5DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UA  
Ad,C;UAAyB,OAAO,I;QACHc,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SA  
AS,QAAS,OAAIB,C;UACR,WF55DG,MAAO,KE45DO,QF55DP,EE45DiB,CF55DjB,C;;QE85Dd,OAAO,Q;O;K  
AIBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,OAAO,I;MACHc,eAAe,SAA  
S,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,2BAAW,  
CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;QAWI,eAAe,oB;QAC  
f,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,  
UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GA  
AkC,CAATC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,oB;MACf,IAAI,CAA  
C,QAAS,UAAAd,C;QAAYB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QA  
CI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAATC,C  
;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,  
OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MFn+DG,  
MAAO,KEm+DE,GFn+DF,EE+DO,CFn+DP,C;;MEq+Dd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,C  
AAC,QAAS,UAAAd,C;QAAYB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAA  
Q,QAAS,O;QACjB,MF//DG,MAAO,KE+/DE,GF//DF,EE+/DO,CF//DP,C;;MEigEd,OAAO,G;K;IAGX,iC;MAKI,e  
AAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,  
UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K  
;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,gD;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QA  
AyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,  
UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAJ,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,0  
B;MAII,OAAO,sB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;kFAGX,+B;MAGW,sB;;QAUP  
,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAA  
I,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAdmB,QAcJ,CAAS,OAAT,C;;UAEX,QAAQ,Q  
AAS,O;UACjB,QAjBe,QAiBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,W



AAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;;MAvBP,yB;K;8FAGJ,+B;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,O;MACHc,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KA AJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MACIB,OAAO,O;K;mFAGX,yB;MAAA,sE;MF14DA,iB;MEk4DA,sC;QAAI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF54DG,MAAO,KE44DO,QF54DP,EE44DiB,CF54DjB,C;;QE84Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MFp6DA,iB;MEo6DA,sC;QAAI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF96DG,MAAO,KE86DO,QF96DP,EE86DiB,CF96DjB,C;;QEg7Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAAA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAX,KA AJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFv8DA,iB;MEu8DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QACHc,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8DiB,CF/8DjB,C;;QEi9Dd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MFv+DA,iB;MEu+DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QACHc,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WF/+DG,MAAO,KE++DO,QF/+DP,EE++DiB,CF/+DjB,C;;QEi/Dd,OAAO,Q;O;KAIBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,2BAAW,CAAX,KA AJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAATc,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAATc,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MfIIEG,MAAO,KEsjEE,GfIIEF,EEsjEO,CFIIEP,C;;MEwjEd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MfIIEG,MAAO,KEkIEE,GfIIEF,EEkIEO,CFIIEP,C;;MEolEd,OAAO,G;K;IAGX,iC;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KA AJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAAd,C;K;IAGX,gD;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KA AJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,4B;MAMI,IAAI,oCAAJ,C;QAAwB,OAAO,mB;MAC/B,OAAO,CAAC,oBAAW,U;K;iFAGvB,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,K;;QACrD,OAAO,I;O;KARX,C;oFAWA,6B;MAKmC,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;kGAGJ,yB;MAAA,6B;MAAA,sC;MArnBA,wE;MAqnBA,2BAQiB,yB;QA7nBjB,wE:eA6nBiB,0B;UAAA,4B;YAAE,aAAe,c;YAtmBjB,gB;YADb,YAAY,C;YACC,2B;YAAb,OAAa,cAAAb,C;cAAa,sB;cAAM,OAAO,oBAAmB,cAAnB,EAAMb,sBAAnB,UAAP,EAaOC,IAApC,C;;YAsnBmB,W;W;S;OAAzB,C;MARjB,oC;QA9mBiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAAb,C;UAAa,sB;UAAM,OAAO,oBAAMb,cAAnB,EAAMb,sBAAnB,UAAP,EAaOC,IAApC,C;;QAsnBnB,gB;O;KARJ,C;oFAWA,yB;MAAA,4F;MAAA,uC;QAAI,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,mCAA8B,oCAA9B,C;QAC/B,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,WAAV,EAAuB,QAAS,OAAhC,C;;QAEIB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,wE;MAAA,uC;QAKmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,

UAAAd,C;UAAyB,MAAM,mCAA8B,oCAA9B,C;QAC/B,YAAy,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oBAAmB,YAAnB,EAAMb,oBAAnB,QAAS,EAAuC,WAAvC,EAAoD,QAA S,OAA7D,C;;QAEIB,OAAO,W;O;KApBX,C;8GAuBA,yB;MAAA,wE;MAAA,uC;QAKbMD,Q;QAL/C,eAAe,SA AK,W;QACpB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QAChC,YAAy,C;QACZ,kBAAqB,QAAS,O;QAC 9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oBAAmB,YAAnB,EAAMb,oBAAnB,QAAS,EAAuC,WAAvC, EAAoD,QAAS,OAA7D,C;;QAEIB,OAAO,W;O;KApBX,C;gGAuBA,gC;MAcI,eAAe,SAAK,W;MACpB,IAAI,C AAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MAChC,kBAAqB,QAAS,O;MAC9B,OAAO,QAAS,UAAhB,C;QACI,cA Ac,UAAU,WAAV,EAAuB,QAAS,OAAhC,C;;MAEIB,OAAO,W;K;8FAGX,yB;MAAA,4F;MAAA,uC;QAaI,eAA e,+BAAa,cAAb,C;QACf,IAAI,CAAC,QAAS,cAAAd,C;UACI,MAAM,mCAA8B,8BAA9B,C;QACV,kBAAqB,QA AS,W;QAC9B,OAAO,QAAS,cAAhB,C;UACI,cAAc,UAAU,QAAS,WAAAnB,EAA+B,WAA/B,C;;QAEIB,OAAO, W;O;KApBX,C;4GAuBA,yB;MAAA,4F;MAAA,uC;QAaI,eAAe,+BAAa,cAAb,C;QACf,IAAI,CAAC,QAAS,cAA d,C;UACI,MAAM,mCAA8B,8BAA9B,C;QACV,kBAAqB,QAAS,W;QAC9B,OAAO,QAAS,cAAhB,C;UACI,YA AY,QAAS,gB;UACrB,cAAc,UAAU,KAAV,EAAiB,QAAS,WAA1B,EAAc,WAAtC,C;;QAEIB,OAAO,W;O;KA rBX,C;wHAWBA,gC;MAaI,eAAe,+BAAa,cAAb,C;MACf,IAAI,CAAC,QAAS,cAAAd,C;QACI,OAAO,I;MACX,kB AAqB,QAAS,W;MAC9B,OAAO,QAAS,cAAhB,C;QACI,YAAy,QAAS,gB;QACrB,cAAc,UAAU,KAAV,EAAiB ,QAAS,WAA1B,EAAc,WAAtC,C;;MAEIB,OAAO,W;K;0GAGX,gC;MAcI,eAAe,+BAAa,cAAb,C;MACf,IAAI, CAAC,QAAS,cAAAd,C;QACI,OAAO,I;MACX,kBAAqB,QAAS,W;MAC9B,OAAO,QAAS,cAAhB,C;QACI,cAAc ,UAAU,QAAS,WAAAnB,EAA+B,WAA/B,C;;MAEIB,OAAO,W;K;8FAGX,yB;MAAA,kF;MAAA,gD;MAAA,gE; MAAA,gD;QAiBoB,Q;QAJhB,oBAAoB,mCAAwB,CAAxB,C;QACpB,IAAI,kBAAiB,CAArB,C;UAAwB,OAAO ,OAAO,OAAP,C;QACc,kBAAhC,eAAa,gBAAGB,CAAhB,IAAb,C;QAAwC,8B;QAARd,aHjjFO,W;QGkjFP,kBA AkB,O;QACF,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd ,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4GAwBA,yB;MAAA,kF;MAAA,gD;MAAA,gE;MAAA, gD;QAmBoB,UACY,M;QAN5B,oBAAoB,mCAAwB,CAAxB,C;QACpB,IAAI,kBAAiB,CAArB,C;UAAwB,OAA O,OAAO,OAAP,C;QACc,kBAAhC,eAAa,gBAAGB,CAAhB,IAAb,C;QAAwC,8B;QAARd,aH1kFO,W;QG2kFP,Y AAY,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,cAAc,WAAU,cAAV,EAAU ,sBAAV,WAAmB,WAAAnB,EAAgC,OAAhC,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;k GA0BA,yB;MAAA,qD;MAAA,kF;MAAA,gE;MAAA,uC;QAcl,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UA Ad,C;UAAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QACuD,kBAA1C,eAAa,mCAAwB,EAAxB,CAAb, C;QAAkD,sBAAI,aAAJ,C;QAA/D,aHrmFO,W;QGsmFP,OAAO,QAAS,UAAhB,C;UACI,gBAAC,UAAU,aAAV, EAAuB,QAAS,OAAhC,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;gHAYBA,yB;MAAA,qD ;MAAA,kF;MAAA,gE;MAAA,uC;QAoBgC,Q;QAN5B,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAAd,C;U AAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QACuD,kBAA1C,eAAa,mCAAwB,EAAxB,CAAb,C;QAA kD,sBAAI,aAAJ,C;QAA/D,aH9nFO,W;QG+nFP,YAAy,C;QACZ,OAAO,QAAS,UAAhB,C;UACI,gBAAC,WAA U,YAAV,EAAU,oBAAV,SAAMb,aAAnB,EAAgC,QAAS,OAAzC,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA O,M;O;KAvBX,C;gFA0BA,yB;MArGA,kF;MAAA,gD;MAAA,gE;MAqGA,gD;QAcW,sB;;UAIGS,Q;UAJhB,oB AAoB,mCAAwB,CAAxB,C;UACpB,IAAI,kBAAiB,CAArB,C;YAAwB,qBAAO,OAqGZ,OAqGY,C;YAAP,uB;W ACqB,kBAAhC,eAAa,gBAAGB,CAAhB,IAAb,C;UAAwC,sBAoGlC,OAqGkC,C;UAArD,aHjjFO,W;UGkjFP,kB AmGmB,O;UAIGH,2B;UAAhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cAiGwB,SAjGV,CAAU,WAAV,EAAuB, OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA8FP,yB;O;KADJ,C;8FAiBA,yB;MA9FA,kF;M AAA,gD;MAAA,gE;MA8FA,gD;QAeW,6B;;UA1FS,gB;UALhB,oBAAoB,mCAAwB,CAAxB,C;UACpB,IAAI,k BAAiB,CAArB,C;YAAwB,4BAAO,OA8FL,OA9FK,C;YAAP,8B;WACqB,kBAAhC,eAAa,gBAAGB,CAAhB,IA Ab,C;UAAwC,sBA6F3B,OA7F2B,C;UAArD,aH1kFO,W;UG2kFP,YAAy,C;UACZ,kBA2F0B,O;UA1FV,2B;UA AhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cAyF+B,SAzFjB,EAAU,cAAV,EAAU,sBAAV,WAAmB,WAAAnB,EA AgC,OAAhC,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAsFP,gC;O;KAfJ,C;kFAkBA,+B;MAOoB, Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;M AEJ,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB; QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACJ,2B;MAA hB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAUoB,Q;M

ADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,  
OAAO,G;K;mFAGX,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAA  
hB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MjB/7EA,6B;  
MiB+7EA,sC;QAWoB,Q;QADhB,UjB/7EmC,ciB+7EnB,CjB/7EmB,C;QiBg8EnB,2B;QAAhB,OAAgB,cAAhB,C;  
UAAgB,yB;UACZ,MjBnwFiD,ciBmwFjD,GjBnwF2D,KAAK,GiBmwFzD,SAAS,OAAT,CjBnwFoE,KAAK,IAAf  
,C;;QiBqwFrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MD78EA,+B;MC68EA,sC;QAWoB,Q;QADhB,UD58EqC,eAA  
W,oBC48E/B,CD58E+B,CAAX,C;QC68ErB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MDjxFmD,eCixF  
nD,GDjxF8D,KAAK,KCixF5D,SAAS,OAAT,CDjxFuE,KAAK,CAAhB,C;;QCmxFvD,OAAO,G;O;KAdX,C;IAiB  
A,qC;MAIoB,UAMT,M;MANS,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,eAAJ,C;UACI,MAAM,  
gCAAYB,2BAAwB,SAAXB,MAAZB,C;;MAId,OAAO,mE;K;IAGX,qC;MAIoB,UAMT,M;MANS,2B;MAAhB,O  
AAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,eAAJ,C;UACI,MAAM,gCAAYB,2BAAwB,SAAXB,MAAZB,C;;MAId,  
OAAO,+D;K;IAGX,kC;MAWI,OAAO,oBAAS,IAAT,EAAe,IAAf,EAAc,IAAtC,C;K;IAGX,+C;MAGBI,OAAO,s  
BAAS,IAAT,EAAe,IAAf,EAAc,IAAtC,EAAwD,SAAXD,C;K;IAGX,mC;MAII,aAAa,iBAAa,mCAAwB,EAAxB  
,CAAb,C;MACb,kBAAC,KAAd,C;MANIEgB,Q;MAAA,OAoLET,SAPLES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,  
2B;QAAU,oB;QAoIEK,IAAI,CAAC,SAAD,IAAY,OAPLEX,SAoIEW,UAAhB,C;UAAiC,YAAU,I;UAA3C,mBAA  
iD,K;;UAAjD,mBAA8D,I;;QAPlEvE,qB;UAoIED,MAPlEqC,WAAI,SAAJ,C;;MAoEID,OAAqB,M;K;IAGzB,sC;  
MAQI,IAAI,QpB0yJG,YAAQ,CoB1yJf,C;QAAwB,OAA Y,SAAL,SAAK,C;MACpC,YAAqB,8BAAT,QAAS,C;M  
AtoEd,kBAAY,gB;MA4BH,Q;MAAA,OA2mET,SA3mES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IA  
AI,CA2mEF,qBA3mEa,OA2mEb,CA3mEF,C;UAAyB,WAA Y,WAAI,OAAJ,C;;MA2mE3D,OA1mEO,W;K;IA6m  
EX,sC;MAQI,YAAqB,gCAAT,QAAS,EAAgC,SAAhC,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAA Y,SAAL,S  
AAK,C;MAppET,kBAAY,gB;MA4BH,Q;MAAA,OAynET,SAznES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q  
AAM,IAAI,CAynEF,qBAznEa,OAynEb,CAznEF,C;UAAyB,WAA Y,WAAI,OAAJ,C;;MAynE3D,OAxnEO,W;K;I  
A2nEX,sC;MAQI,YAAqB,8BAAT,QAAS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAA Y,SAAL,SAAK,C;MAI  
qET,kBAAY,gB;MA4BH,Q;MAAA,OAuoET,SAvoES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,  
CAuoEF,qBAvoEa,OAuoEb,CAvoEF,C;UAAyB,WAA Y,WAAI,OAAJ,C;;MAuoE3D,OAtoEO,W;K;8FAyoEX,yB  
;MAAA,8C;MAAA,qC;QAKI,OAAO,iBAAM,OAAN,C;O;KALX,C;0FAQA,yB;MAAA,+D;MAAA,6B;MAAA,u  
C;QAUoB,Q;QAFhB,YAA Y,gB;QACZ,aAAa,gB;QACG,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI  
,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;QAGf,OAAO,cAAK,K  
AAL,EAA Y,MAAZ,C;O;KAjBX,C;IAoBA,kC;MAII,IAAI,oCAAJ,C;QAAwB,OAA Y,OAAL,SAAK,EAAK,OA  
L,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACP,MAAO,WAAI,OAAJ,C;MACP,OAAO,M;  
K;IAGX,oC;MAII,aAAa,iBAAa,iBAAO,CAAP,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;MACP,MAAO,WAAI,  
OAAJ,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,oCAAJ,C;QAAwB,OAA Y,OAAL,SAAK,EAAK,QAAL,C;M  
ACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M  
;K;IAGX,qC;MAII,aAAa,iBAAa,SAAK,KAAL,GAAY,QAAS,OAARb,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;  
MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,oCAAJ,C;QAAwB,OAA Y,OA  
AL,SAAK,EAAK,QAAL,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,OAAP,MAAO,EA  
AO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,mCAAJ,C;QACI,aAAa,iBAAa,SAAK,KAAL,GAAY,QA  
AS,KAARb,IAAb,C;QACb,MAAO,gBAAO,SAAP,C;QACP,MAAO,gBAAO,QAAP,C;QACP,OAAO,M;;QAEp,e  
AAa,iBAAa,SAAb,C;QACN,OAAP,QA AO,EAAO,QAAP,C;QACP,OAAO,Q;;K;IAIf,qC;MAII,aAAa,gB;MACN,  
OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,aAA  
a,iBAAa,SAAK,KAAL,GAAY,EAAZ,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,Q  
AAP,C;MACP,OAAO,M;K;4FAGX,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,gBAAK,OAAL,C;O;KALX,C;8FA  
QA,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,gBAAK,OAAL,C;O;KALX,C;IAQA,yD;MAGB+C,oB;QAAA,OAA  
Y,C;MAAG,8B;QAAA,iBAA0B,K;MAOzE,Q;MANX,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,IAAI,0CAA  
wB,8BAA5B,C;QACI,eAAe,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAASB,WAAW,IAAX,KAAmB,CAA vB,G  
AA0B,CAA1B,GAAiC,CAAnD,K;QACrB,aAAa,iBAAmB,cAA nB,C;QACb,gBAA Y,CAAZ,C;QACA,Y;UAAO,c  
;UAAP,MAAGB,CAAT,mBAAiB,QAAxB,E;YAAA,K;UACI,iBAASB,eAAL,IAAK,EAAa,WAAW,OAA X,IAAb,  
C;UACtB,IAAI,aAAa,IAAb,IAAqB,CAAC,cAA1B,C;YAA0C,K;Ud59FID,WAAW,iBc69Fa,Ud79Fb,C;UWCX,m

BAAC,CAAD,YG49FwB,UH59FxB,Y;YXA6B,ec49FS,sBH39F3B,OG29FgC,GAACK,OAAL,IAAL,Cd59FT,C;;Uc  
49FrB,MAAO,Wd39FR,Ic29FQ,C;UACP,oBAAS,IAAT,I;;QAEJ,OAAO,M;OAEX,eAAa,gB;MACiE,kBAA9E,iB  
AAiB,oBAAjB,EAA6B,IAA7B,EAAMC,IAAnC,EAAyC,cAAzC,EAAuE,KAAvE,C;ME5IGA,OAAgB,qBAAhB,  
C;QAAgB,gC;QF6lGL,mBE7lGqB,OF6lGrB,C;;MAEX,OAAO,Q;K;IAGX,sE;MAkBkD,oB;QAAA,OAAy,C;MA  
AG,8B;QAAA,iBAA0B,K;MACvF,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,IAAL,0CAAwB,8BAA5B,C;QACI  
,eAAe,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAASB,WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAA  
iC,CAAnD,K;QACrB,aAAa,iBAAa,cAAb,C;QACb,eAAa,kBAAC,SAAd,C;QACb,YAAy,C;QACZ,OAAgB,CAA  
T,qBAAiB,QAAxB,C;UACI,iBAASB,eAAL,IAAK,EAAa,WAAW,KAAx,IAAb,C;UACtB,IAAI,CAAC,cAAD,IA  
AmB,aAAa,IAApC,C;YAA0C,K;UAC1C,QAAO,cAAK,KAAL,EAAY,QAAQ,UAAR,IAAZ,C;UACP,MAAO,W  
AAI,UAAU,QAAV,CAAJ,C;UACP,gBAAS,IAAT,I;;QAEJ,OAAO,M;OAEX,eAAa,gB;MACgE,kBAA7E,iBAAi  
B,oBAAjB,EAA6B,IAA7B,EAAMC,IAAnC,EAAyC,cAAzC,EAAuE,IAAvE,C;MEtoGA,OAAgB,qBAAhB,C;QA  
AgB,gC;QFuoGL,mBAAI,UEvoGiB,OFuoGjB,CAAJ,C;;MAEX,OAAO,Q;K;IAGX,kC;MAqBoB,gB;MAHhB,gB  
AXW,KAWW,O;MACtB,WAAW,iBF17FJ,MAAO,KE07FgB,mCAAwB,EAAXB,CF17FhB,EE07F6C,SF17F7C,C  
E07FH,C;MACX,QAAQ,C;MACQ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UA  
AoB,K;QACpB,IAAK,WAhBqB,GAgBP,OAHO,EAAnB,KAgBqB,CAAM,UAAN,EAAM,kBAAN,SAhBF,CAG  
BrB,C;;MAhBT,OAKBO,I;K;+EafX,yB;MAAA,kF;MAAA,gE;MFv7FA,iB;MEu7FA,8C;QAWoB,UAESB,M;QA  
LtC,gBAAgB,KAAM,O;QACtB,WAAW,eF17FJ,MAAO,KE07FgB,mCAAwB,EAAXB,CF17FhB,EE07F6C,SF17  
F7C,CE07FH,C;QACX,QAAQ,C;QACQ,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,  
C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,OAAV,EAAMB,MAAM,UAAN,EAAM,kBAAN,SAAnB,CAAJ,C;;Q  
AET,OAAO,I;O;KafX,C;IakBA,kC;MAkBI,YAAy,oB;MACZ,aAZW,KAYQ,W;MACnB,WAAW,iBFv9FJ,MA  
AO,KEu9FgB,mCAAwB,EAAXB,CFv9FhB,EEu9FmD,wBAbtD,KAsD,EAAwB,EAAXB,CFv9FnD,CEu9FH,C;  
MACX,OAAO,KAAM,UAAN,IAAmB,MAAO,UAAjC,C;QACI,IAAK,WafqB,GAep,KAAM,OafC,EAeO,MAA  
O,Oafd,CAerB,C;;MAft,OAIBo,I;K;+EAdX,yB;MAAA,kF;MAAA,gE;MFn9FA,iB;MEM9FA,8C;QAQI,YAAy,  
oB;QACZ,aAAa,KAAM,W;QACnB,WAAW,eFv9FJ,MAAO,KEu9FgB,mCAAwB,EAAXB,CFv9FhB,EEu9FmD,  
wBAAN,KAAM,EAAwB,EAAXB,CFv9FnD,CEu9FH,C;QACX,OAAO,KAAM,UAAN,IAAmB,MAAO,UAAjC,C  
;UACI,IAAK,WAAI,UAAU,KAAM,OAAhB,EAAwB,MAAO,OAA/B,CAAJ,C;;QAET,OAAO,I;O;KAdX,C;IAiB  
A,gC;MASW,sB;;QAAP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,W;UAAP,uB;SACzB,ad/  
pGoD,gB;QcggpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UAAhB,C;UACI,WAAW,QAAS,O;UACpB,MAAO,  
WAnBkB,GAmBJ,OAnBI,EAmBK,IAnBL,CAMBiB,C;UACP,UAAU,I;;QAEd,qBAAO,M;;MAtpB,yB;K;8FAGJ,  
yB;MAAA,qD;MdzpGA,+D;McpGA,uC;QAUI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,W  
;QACChC,ad/pGoD,gB;QcggpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UAAhB,C;UACI,WAAW,QAAS,O;UAC  
pB,MAAO,WAAI,UAAU,OAAV,EAAMB,IAAnB,CAAJ,C;UACP,UAAU,I;;QAEd,OAAO,M;O;KAnBX,C;IAsB  
A,8F;MAQ6D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA  
,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,  
C;MACP,YAAy,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,iCAAU,CAAd,C;UAAiB,MA  
AO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAc,OAAd,  
EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,  
C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,4F;MAQwC,yB;QAAA,YAA0B,I;MAAM,sB;Q  
AAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB  
;QAAA,YAAoC,I;MACjN,OAAO,oBAAO,sBAAP,EAAwB,SAAXB,EAAMC,MAAnC,EAA2C,OAA3C,EAAoD,  
KAApD,EAA2D,SAA3D,EAASe,SAAtE,CAAiF,W;K;4FAG5F,qB;MAKI,OAAO,S;K;IASS,8C;MAAA,mB;QAA  
E,OAAA,eAAK,W;O;K;IAN3B,iC;MAMI,oCAAgB,8BAAhB,C;K;IAGJ,+B;MAOoB,Q;MAFhB,UAAkB,G;MAC  
IB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EA  
AmB,KAAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAGB,wCAAO,IAAvB,GAAGC,MAAM,K;K;IAGjD,+B;MAOo  
B,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;  
QACP,oBAAmB,qBAAnB,EAAMB,KAAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAGB,wCAAO,IAAvB,GAAGC,  
MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C  
;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAMB,KAAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAA

gB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2  
B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAmB,E;;MAE  
J,OAAW,UAAS,CAAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G  
;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,  
EAAmB,KAAmB,E;;MAEJ,OAAW,UAAS,CAAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;  
MAOoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OA  
AO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAmB,E;;MAEJ,OAAW,UAAS,CAAAb,GAAgB,wCAAO,IAAvB,GA  
AgC,MAAM,K;K;IAGjD,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;Q  
ACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAGB,cAAhB  
,C;QAAGB,yB;QACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB  
,OAAGB,cAAhB,C;QAAGB,yB;QACZ,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,Y;MA  
CgB,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,  
Q;MADhB,UAAiB,G;MACD,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;I  
AGX,2B;MAMoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,O;;M  
AEX,OAAO,G;K;IGN1GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,EAAY,UAAZ,C  
AAT,EAAKC,UAAIC,C;K;IAGX,oC;MAOI,OAAW,UAAW,SAAQ,CAAR,EAAY,CAAX,CAAX,IAA4B,CAAh  
C,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,Q  
AA,KAAY,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAY,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;  
MAC3D,OAAO,G;K;IA+GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,EAAY,UAAZ  
,CAAT,EAAKC,UAAIC,C;K;IAGX,oC;MAOI,OAAW,UAAW,SAAQ,CAAR,EAAY,CAAX,CAAX,IAA4B,CAA  
hC,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,Q  
AA,KAAY,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAY,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;  
MAC3D,OAAO,G;K;oGCnXX,yB;MAAA,iE;MAAA,uC;QASW,Q;QAAA,+B;;UAYS,U;UAAA,SjB4UoE,iBAA  
Q,W;UiB5U5F,OAAGB,gBAAhB,C;YAAgB,2B;YACZ,aAbwB,SaaX,CAAU,OAAY,C;YACb,IAAI,cAAJ,C;cAC  
I,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;QAIBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,4DAAV,C;SAAhD,  
OAAO,I;O;KATX,C;gHAYA,gC;MASoB,Q;MAAA,OAAA,SjB4UoE,QAAQ,W;MiB5U5F,OAAGB,cAAhB,C;Q  
AAGB,yB;QACZ,aAAa,UAAU,OAAY,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,6B;MA  
II,IAAI,mBAAQ,CAAZ,C;QACI,OAAO,W;MACX,eAAe,iBAAQ,W;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAC  
I,OAAO,W;MACX,YAAY,QAAS,O;MACrB,IAAI,CAAC,QAAS,UAAAd,C;QACI,OAAO,OjB8PiD,SiB9P1C,KjB  
8P+C,IAAL,EiB9P1C,KjB8PoD,MAAV,CiB9PjD,C;OACX,aAAa,iBAAAsB,cAAATB,C;MACb,MAAO,WjB4PqD,Si  
B5PjD,KjB4PsD,IAAL,EiB5PjD,KjB4P2D,MAAV,CiB5PrD,C;;QAEwB,kBAAhB,QAAS,O;QAAPB,MAAO,WjB  
0PiD,SAAK,eAAL,EAAU,iBAAV,CiB1PjD,C;;MACO,QAAT,QAAS,W;MACIB,OAAO,M;K;uFAGX,yB;MAAA  
,+D;MAABA,gD;MAtBA,uC;QAMW,kBAAU,gB;QAoBD,Q;QAAA,OjBqRoE,iBAAQ,W;QiBr5F,OAAGB,cAA  
hB,C;UAAGB,yB;UACZ,WArB6B,SAqBIB,CAAU,OAAY,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAAThB,OA  
wBO,W;O;KA9BX,C;uFASA,yB;MAAA,+D;MAwBA,gD;MAxBA,uC;QAUW,kBAAU,gB;QASBD,Q;QAAA,Oj  
BsQoE,iBAAQ,W;QiBtQ5F,OAAGB,cAAhB,C;UAAGB,yB;UACZ,WAvB6B,SAuBIB,CAAU,OAAY,C;UACC,O  
AAZ,WAAY,EAAO,IAAP,C;;QAxBhB,OA0BO,W;O;KApCX,C;2FAaA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QA  
AA,OAAA,SjBqRoE,QAAQ,W;QiBr5F,OAAGB,cAAhB,C;UAAGB,yB;UACZ,WAAY,UAAU,OAAY,C;UACC  
,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;2FAWA,yB;MAAA,gD;MAAA,oD;QAQoB,Q;Q  
AAA,OAAA,SjBsQoE,QAAQ,W;QiBtQ5F,OAAGB,cAAhB,C;UAAGB,yB;UACZ,WAAY,UAAU,OAAY,C;UAC  
C,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAZX,C;8EAeA,yB;MAAA,gE;MAAA,uC;QAOW,kBA  
AM,eAAa,cAAb,C;QA2BA,Q;QAAA,OjB6NuE,iBAAQ,W;QiB7N5F,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,W  
A5BiB,SA4Bb,CAAU,IAAV,CAAJ,C;;QA5BhB,OA6BO,W;O;KApCX,C;4FAUA,yB;MAAA,+D;MAAA,uC;QA  
OW,kBAaA,gB;QA4EJ,Q;QAAA,OjBkKoE,iBAAQ,W;QiBIK5F,OAAGB,cAAhB,C;UAAGB,yB;UApEK,U;UAA  
A,cARe,SAQf,CAoEQ,OAPER,W;YAAAsC,6B;;QAR3D,OASO,W;O;KAhBX,C;gGAUA,yB;MAAA,oD;QAYeOB,  
Q;QAAA,OjBkKoE,iBAAQ,W;QiBIK5F,OAAGB,cAAhB,C;UAAGB,yB;UApEK,U;UAAA,wBAoEQ,OAPER,W;  
YAAAsC,6B;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,Q;MAAA,OAAA,SjB6NuE,QAAQ,W;MiB7N5F,  
OAAa,cAAb,C;QAaa,sB;QACT,WAAY,WAAl,UAAU,IAAV,CAAJ,C;;MACHB,OAAO,W;K;8EAGX,gC;MAOO

B,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,I;MACN,OAAA,SjBiNoE,QAAQ,W;MiBjN5F,OAAgB,cAAhB,C;Q  
AAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;IAGX,2B;MAMI,  
OAAO,CAAC,mB;K;+EAGZ,gC;MAOoB,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,K;MACN,OAAA,SjB6LoE,  
QAAQ,W;MiB7L5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MA  
CrD,OAAO,K;K;mFAGX,qB;MAKI,OAAO,c;K;mFAGX,gC;MAMoB,Q;MAFhB,IAAI,mBAAJ,C;QAAe,OAAO,  
C;MACtB,YAAY,C;MACI,OAAA,SjB2KoE,QAAQ,W;MiB3K5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,U  
AAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;sFAGX,6B;MAKoB,Q;MAAA,OAAA,SjBkKoE,QAAQ  
,W;MiBIK5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;kFAG1B,+B;MAemB,kBAAR,iB;MAA  
Q,sB;;QJkoDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O  
;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eIjpDmB,QJipDJ,CAAS,OAAT,C;;  
UAEX,QAAQ,QAAS,O;UACjB,QIppDe,QJopDP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,  
UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MI1pDP,yB;K;8FAGJ,+B;MAQmB,kB  
AAR,iB;MAAQ,sB;;QJkoDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,c  
AAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eItoD2B,QJsoDZ,CA  
AS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QIzoDuB,QJyoDf,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,K  
AAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MI/oDP,yB;K;mFAGJ,y  
B;MJ+oDA,sE;MF/yDA,iB;MMgKA,sC;QJ4pDI,eI/oDO,iBJ+oDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAy  
B,MAAM,6B;QAC/B,eIjpDqB,QJipDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIppDiB,  
QJmpDT,CAAS,QAAS,OAAIB,C;UACR,WFzzDG,MAAO,KEyzDO,QFzzDP,EEyzDiB,CFzzDjB,C;;QMqKd,OJs  
pDO,Q;O;KInqDX,C;mFAGBA,yB;MJspDA,sE;MFj1DA,iB;MM2LA,sC;QJmqDI,eItpDO,iBJspDQ,W;QACf,IAA  
I,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIxpDqB,QJwpDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,  
QAAS,UAAhB,C;UACI,QI1pDiB,QJ0pDT,CAAS,QAAS,OAAIB,C;UACR,WF31DG,MAAO,KE21DO,QF31DP,  
EE21DiB,CF31DjB,C;;QMgMd,OJ6pDO,Q;O;KI1qDX,C;mFAGBA,yB;MJ6pDA,sE;MI7pDA,sC;QJwqDI,eI7pDO  
,iBJ6pDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eI/pDqB,QJ+pDN,CAAS,QAAS,O  
AAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjqDiB,QJiqDT,CAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,  
CAAX,KAAJ,C;YACI,WAAW,C;;QInqDnB,OJsqDO,Q;O;KIjrDX,C;+FAcA,yB;MN9MA,iB;MM8MA,sC;QAW  
mB,kBAAR,iB;QAAQ,sB;;UJsqDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;W  
ACzB,eIxd2B,QJwqDZ,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QI1qDuB,QJ0qDf,CAA  
S,QAAS,OAAIB,C;YACR,WF53DG,MAAO,KE43DO,QF53DP,EE43DiB,CF53DjB,C;;UE83Dd,qBAAO,Q;;QI7  
qDP,yB;O;KAXJ,C;+FAcA,yB;MNvOA,iB;MMuOA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJ6qDf,eAAe,sB;UACf  
,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eI/qD2B,QJ+qDZ,CAAS,QAAS,OAAIB,C;U  
ACf,OAAO,QAAS,UAAhB,C;YACI,QIjrDuB,QJirDf,CAAS,QAAS,OAAIB,C;YACR,WF55DG,MAAO,KE45DO  
,QF55DP,EE45DiB,CF55DjB,C;;UE85Dd,qBAAO,Q;;QIprDP,yB;O;KAXJ,C;+FAcA,+B;MASmB,kBAAR,iB;M  
AAQ,sB;;QJorDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,eItrD2B,QJs  
rDZ,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIxrDuB,QJwrDf,CAAS,QAAS,OAAIB,C;U  
ACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,qBAAO,Q;;MI7rDP,yB;K;0FAGJ,yB;MJ6rDA,s  
E;MI7rDA,kD;QJwsDI,eI7rDO,iBJ6rDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eI/r  
DqC,QJ+rDtB,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjsDiC,QJisDzB,CAAS,QAAS,O  
AAIB,C;UACR,IIIsDqB,UJksDN,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QIn  
sDnB,OJssDO,Q;O;KIjtDX,C;sGAcA,2C;MASmB,kBAAR,iB;MAAQ,0B;;QJssDf,eAAe,sB;QACf,IAAI,CAAC,Q  
AAS,UAAAd,C;UAAyB,yBAAO,I;UAAP,2B;SACzB,eIxsD2C,QJwsD5B,CAAS,QAAS,OAAIB,C;QACf,OAAO,Q  
AAS,UAAhB,C;UACI,QI1sDuC,QJ0sD/B,CAAS,QAAS,OAAIB,C;UACR,II3sD2B,UJ2sDZ,SAAQ,QAAR,EAak  
B,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,yBAAO,Q;;MI/sDP,6B;K;sFAGJ,yB;MAOA,8D;  
MAPA,wC;QAIL,OASe,cAAR,iBAAQ,EATM,UASN,C;O;KAbnB,C;kGAOA,yB;MAAA,8D;MAAA,wC;QAMI,  
OAAe,cAAR,iBAAQ,EAAC,UAAAd,C;O;KANnB,C;kFASA,+B;MAcmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB  
;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,  
QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eIvyDmB,QJuyDJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,  
O;UACjB,QI1yDe,QJ0yDP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAA

W,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;;MIhzDP,yB;K;8FAGJ,+B;MAQmB,kBAAR,iB;MAAQ,sB;;QJ  
wxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB  
,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eI5xD2B,QJ4xDZ,CAAS,OAAT,C;;UAEX,  
QAAQ,QAAS,O;UACjB,QI/xDuB,QJ+xDf,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,  
C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;;MIryDP,yB;K;mFAGJ,yB;MJqyDA,sE;MFI4D  
A,iB;MM6FA,sC;QJkzDI,eIryDO,iBJqyDQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eI  
vyDqB,QJuyDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIzyDiB,QJyyDT,CAAS,QAAS,  
OAAIB,C;UACR,WF54DG,MAAO,KE44DO,QF54DP,EE44DiB,CF54DjB,C;;QMkGd,OJ4yDO,Q;O;KIzzDX,C;  
mFAGBA,yB;MJ4yDA,sE;MFp6DA,iB;MMwHA,sC;QJyzDI,eI5yDO,iBJ4yDQ,W;QACf,IAAI,CAAC,QAAS,UA  
Ad,C;UAAyB,MAAM,6B;QAC/B,eI9yDqB,QJ8yDN,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;U  
ACI,QIhzDiB,QJgzDT,CAAS,QAAS,OAAIB,C;UACR,WF96DG,MAAO,KE86DO,QF96DP,EE86DiB,CF96DjB,  
C;;QM6Hd,OJmzDO,Q;O;KIh0DX,C;mFAGBA,yB;MJmzDA,sE;MInzDA,sC;QJ8zDI,eInzDO,iBJmzDQ,W;QACf,  
IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIrzDqB,QJqzDN,CAAS,QAAS,OAAIB,C;QACf,OAA  
O,QAAS,UAAhB,C;UACI,QIvzDiB,QJuzDT,CAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YA  
CI,WAAW,C;;QIzzDnB,OJ4zDO,Q;O;KIv0DX,C;+FAcA,yB;MN3IA,iB;MM2IA,sC;QAWmB,kBAAR,iB;QAAQ  
,sB;;UJ4zDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eI9zD2B,QJ8zD  
Z,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIh0DuB,QJg0Df,CAAS,QAAS,OAAIB,C;YA  
CR,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8DiB,CF/8DjB,C;;UEi9Dd,qBAAO,Q;;;QIn0DP,yB;O;KAXJ,C;+FAc  
A,yB;MNpKA,iB;MMoKA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJm0Df,eAAe,sB;UACf,IAAI,CAAC,QAAS,UA  
Ad,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eIr0D2B,QJq0DZ,CAAS,QAAS,OAAIB,C;UACf,OAAO,QAAS,UA  
AhB,C;YACI,QIv0DuB,QJu0Df,CAAS,QAAS,OAAIB,C;YACR,WF/+DG,MAAO,KE++DO,QF/+DP,EE++DiB,C  
F/+DjB,C;;UEi/Dd,qBAAO,Q;;;QI10DP,yB;O;KAXJ,C;+FAcA,+B;MASmB,kBAAR,iB;MAAQ,sB;;QJ00Df,eAA  
e,sB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,eI50D2B,QJ40DZ,CAAS,QAAS,O  
AAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI90DuB,QJ80Df,CAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,  
CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,qBAAO,Q;;;MIn1DP,yB;K;0FAGJ,yB;MJm1DA,sE;MIn1DA,kD;QJ8  
1DI,eIn1DO,iBJm1DQ,W;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eIrlDqC,QJq1DtB,CA  
AS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIv1DiC,QJu1DzB,CAAS,QAAS,OAAIB,C;UACR,I  
Ix1DqB,UJw1DN,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QIz1DnB,OJ41DO,  
Q;O;KIv2DX,C;sGAcA,2C;MASmB,kBAAR,iB;MAAQ,0B;;QJ41Df,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAAd,  
C;UAAyB,yBAAO,I;UAAP,2B;SACzB,eI91D2C,QJ81D5B,CAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAh  
B,C;UACI,QIh2DuC,QJg2D/B,CAAS,QAAS,OAAIB,C;UACR,Ii2D2B,UJi2DZ,SAAQ,QAAR,EAakB,CAAIB,C  
AAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,yBAAO,Q;;;MIr2DP,6B;K;IAGJ,0C;MAGI,OASe,gBAAR,iB  
AAQ,EATM,UASN,C;K;kGANnB,yB;MAAA,8D;MAAA,wC;QAMI,OAAe,cAAR,iBAAQ,EAAC,UAAAd,C;O;KA  
NnB,C;IASA,4B;MAMI,OAAO,mB;K;iFAGX,gC;MAOoB,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,I;MACN,O  
AAA,SjBnJoE,QAAQ,W;MiBmJ5F,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAw  
B,OAAO,K;;MACrD,OAAO,I;K;oFAGX,6B;MAKmC,Q;MAAA,OjB5JqD,iBAAQ,W;MiB4J7E,OAAGB,cAAhB,  
C;QAAGB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;kGAGJ,yB;MAAA,6B;MAAA,sC;MJwyCA,wE;MIxyCA,  
2BAQiB,yB;QJgyCjB,wE;eIhyCiB,0B;UAAA,4B;YAAU,kBAAR,iB;YAAQ,aAAe,c;YJuyCzB,gB;YADb,YAAY,  
C;YACC,6B;YAAb,OAAa,cAAb,C;cAAa,sB;cAAM,OAAO,oBAAmB,cAAnB,EAAMB,sBAAnB,UAAP,EAAoC,  
IAAPC,C;;YIvyC2B,W;W;S;OAAjC,C;MARjB,oC;QJ+yCiB,gB;QADb,YAAY,C;QACC,OIvyCE,iBJuyCF,W;QA  
Ab,OAAa,cAAb,C;UAAa,sB;UAAM,OAAO,oBAAmB,cAAnB,EAAMB,sBAAnB,UAAP,EAAoC,IAAPC,C;;QIvy  
CnB,gB;O;KARJ,C;4FAWA,qB;MAKI,OAAO,iB;K;IAGX,iC;MAII,OAAe,aAAR,iBAAQ,C;K;IC9hBnB,kC;MA  
EI,gBCmE2D,8BAAy,c;MDIEvE,IAAI,SAAU,OAAV,GAAMB,CAAvB,C;QACW,Q;QAAA,IAAI,cAAQ,GAAZ,  
C;UAAA,OAAsB,S;;uBAAe,qBAAU,CAAV,C;UAAA,YAAe,SEiNc,WFjNM,CEiNN,CAff,c;UFIMnD,OG8MoD,  
2BAAL,GAakB,K;;QH9MxE,W;OAEJ,OAAuB,oBAAhB,wBAAGB,C;K;gFxBd3B,yB;MAAA,mC;MAAA,2C;M  
AAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAA  
O,kBAAO,cAAP,C;O;KARX,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O  
;KARX,C;IAWA,sC;;QAQQ,OAAc,QAAP,MAAO,EAAQ,SAAR,C;;QACHB,+C;UACE,MAAM,2BAAU,B,CAAE

,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QAQQ,OAAc,SAAP,MAAO,EAAS,SAAT,C;;QACbB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QAQQ,OAAiD,OAA1C,MAAO,iBAAQ,e4BtCgB,I5BsCxB,EAoB,CAAA,c4BtCl,I5BsCJ,IAAY,CAAZ,IAApB,CAAmC,C;;QACnD,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,QAAP,MAAO,EAAQ,SAAR,C;K;IAGiB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,SAAP,MAAO,EAAS,SAAT,C;K;IAGiB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAiD,OAA1C,MAAO,iBAAQ,e4BxGoB,I5BwG5B,EAAoB,CAAA,c4BxGQ,I5BwGR,IAAY,CAAZ,IAApB,CAAmC,C;K;mFAGrD,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;IAG9B,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBzHW,ShBgIM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG5E,uC;MgBnIW,ShB0IM,kBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgB7IW,ShBoJM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgBvJW,ShB8JM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG9E,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBzKW,ShBgLM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG5E,uC;MgBnLW,ShB0LM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgB7LW,ShBoMM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgBvMW,ShB8MM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG9E,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjOW,ShBsOM,kBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgBzOW,ShB8OM,mBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG9E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBrQW,ShB0QM,iBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG5E,uC;MgB7QW,ShBkRM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MgBrRW,ShB0RM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG9E,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjUW,ShBsUM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAC,K;K;IAG7E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,+B;MAOI,OAAO,sCAAe,yBAAGB,SAAhB,EAAYB,EAzB,EAAC,EAAlC,C;K;IAG1B,iC;MAOI,OAAO,uCAAGB,yBAAGB,SAAhB,EAAYB,oBAAH,EAAG,CAAZB,M;K;IAG3B,iC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,uCAAGB,yBAAGB,SAAhB,EAAYB,EAAsB,EAAtB,EAA0B,EAA1B,C;K;IAG3B,iC;MAOI,OAAO,sCAAe,yBAAGB,SAAhB,EAAsB,EAAtB,EAA0B,EAA1B,C;K;IAG1B,iC;MAOI,OAAO,uCAAGB,yBAAGB,SAAhB,EAAYB,oBAAH,EAAG,CAAZB,M;K;IAG3B,iC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAA8B,EAA9B,EAAC,EAAlC,C;K;IAG1B,iC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAA8B,EAA9B,EAAC,EAAlC,C;K;IAG1B,iC;MAOI,OAAO,uCAAGB,yBAAqB,oBAAL,SAAK,CAArB,EAAB,EAA/B,M;K;IAG3B,iC;MAOI,OAAO,uCAAGB,yBAAGB,SAAhB,EAAsB,EAAtB,M;K;IAG3B,kC;MAOI,OAAO,uCAAGB,yBAAqB,oBAAL,SAAK,CAArB,EAAB,EAA/B,M;K;IAG3B,kC;MAOI,OAAO,sCAAe,yBAAGB,SAAhB,EAAYB,EAzB,EAAC,EAAlC,C;K;IAG1B,kC;MAOI,OAAO,uCAAGB,yBAAGB,SAAhB,EAAYB,oBAAH,EAAG,CAAZB,M;K;IAG3B,kC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,kC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,+B;MAII,OAAO,sCAAe,yBAAGB,cAAhB,EAAsB,eAAtB,EAA6B,CAAC,cAAD,IAA7B,C;K;IAG1B,gC;MAII,OAAO,uCAAGB,yBAAGB,cAAhB,EAAsB,eAAtB,EAA8B,cAAD,aAA7B,C;K;IAG3B,gC;MAII,OAAO,uCAAGB,yBAAGB,cAAhB,EAAsB,eAAtB,E



AA6B,CAAC,cAAD,IAA7B,C;K;IAG3B,+B;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,s  
CAAE,yBAAGb,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAMb,IAAnB,GAA6B,CAAC,  
IAAD,IAA1D,C;K;IAG1B,iC;MAII,oBAAoB,kBAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAA  
gB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,cAAY,CAAhB,GAAMb,IAAnB,GAA8B,IAAD,aAA1D,C;K;I  
AG3B,iC;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAAGb,eAAhB,EAAuB,c  
AAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAMb,IAAnB,GAA6B,CAAC,IAAD,IAA1D,C;K;IAG3B,sC;MA  
CI,OAAMb,IAAR,8BAAgC,GAApC,GAAiE,OAAL,SAAK,CAAjE,GAA+E,I;K;IAG1F,wC;MACI,OAAMw,mEA  
AJ,GAAMe,OAAL,SAAK,SAAnE,GAAiF,I;K;IAG5F,wC;MACI,OAAMW,YAAQ,aAAA,sCAAE,UAAf,EAA0B,s  
CAAE,UAAzC,CAAR,YAAJ,GAAqE,OAAL,SAAK,CAArE,GAAMf,I;K;IAG9F,wC;MACI,OAAMb,UAAA,sCA  
AE,UAAf,EAA2B,sCAAE,UAA1C,CAAR,4BAAJ,GAA+E,OAAR,YAAL,SAAK,CAAQ,CAA/E,GAA6F,I;K;IAG  
xG,wC;MACI,OAAMb,UAAA,sCAAE,UAAf,EAA0B,sCAAE,UAAzC,CAAR,4BAAJ,GAA6E,OAAR,YAAL,SA  
AK,CAAQ,CAA7E,GAA2F,I;K;IAGtG,qC;MACI,OAAMw,iFAAJ,GAA4D,SAAK,QAajE,GAA8E,I;K;IAGzF,uC;  
MACI,OAAMb,UAAc,WAAd,EAAwC,UAAxC,CAAR,4BAAJ,GAAqE,YAAL,SAAK,CAArE,GAakF,I;K;IAG7  
F,uC;MACI,OAAMb,UAAc,WAAd,EAAuC,UAAvC,CAAR,4BAAJ,GAAmE,YAAL,SAAK,CAAnE,GAAGf,I;K;  
IAG3F,sC;MACI,OAAMb,UAAe,mCAAf,EAA0C,mCAA1C,CAAR,4BAAJ,GAAuE,uBAAL,SAAK,CAAvE,GA  
AqF,I;K;IAGhG,wC;MACI,OAAMb,UAAe,mCAAf,EAAyC,mCAAzC,CAAR,4BAAJ,GAAqE,uBAAL,SAAK,C  
AArE,GAAMf,I;K;IAG9F,uC;MACI,OAAMb,MAAR,8BAAiC,KAArC,GAAMe,QAAL,SAAK,CAAnE,GAakF,  
I;K;IAG7F,yC;MACI,OAAMW,uEAAJ,GAAqE,QAAL,SAAK,SAArE,GAAoF,I;K;IAG/F,yC;MACI,OAAMb,UAA  
A,uCAAgB,UAAhB,EAA4B,uCAAgB,UAA5C,CAAR,4BAAJ,GAAiF,QAAR,YAAL,SAAK,CAAQ,CAAjF,GAA  
gG,I;K;IAG3G,yC;MACI,OAAMb,UAAA,uCAAgB,UAAhB,EAA2B,uCAAgB,UAA3C,CAAR,4BAAJ,GAA+E,  
QAAR,YAAL,SAAK,CAAQ,CAA/E,GAA8F,I;K;IAGzG,8B;MAMI,OAAO,wBAAY,EAAa,GAAG,IAAz  
B,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,O  
AAO,aAAK,SAAL,EAAoB,EAAa,GAAG,IAAjC,C;K;IAGX,gC;MAMI,OAAO,aAAK,SAAL,EAAoB,EA  
Aa,GAAG,CAAG,IAAjC,C;K;IAGX,gC;MAMI,IAAI,MAAM,CAAV,C;QAAoB,OAAO,iCAAU,M;MACrC,OAA  
O,yBAAiB,OAAR,EAAQ,GAAG,CAAG,CAAjB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,  
gCAAS,M;MACzC,OAAO,wBAAS,EAAQ,GAAG,CAAG,IAAjB,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBAAH,  
EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,gCAAS,M;  
MACzC,OAAO,aAAK,SAAL,EAAiB,EAAQ,GAAG,CAAG,IAAzB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,  
C;QAAyB,OAAO,gCAAS,M;MACzC,OAAO,aAAK,SAAL,EAAiB,EAAQ,GAAG,CAAG,IAAzB,C;K;IAGX,gC;  
MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAO,yBAAL,SAAK,CAAL,SAakB,EAAQ,8BAAH  
,CAAG,EAA1B,C;K;IAGX,gC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAO,kBAAS,EAAQ  
,8BAAH,CAAG,EAAjB,C;K;IAGX,iC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAO,yBAA  
L,SAAK,CAAL,SAakB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iC  
AAU,M;MAC3C,OAAO,yBAAL,SAAK,CAAL,SAakB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,O  
AAO,wBAAY,EAAa,GAAG,CAAG,IAAzB,C;K;IAGX,iC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH  
,CAAG,EAA1B,C;K;IAGX,iC;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;IAGX,iC;  
MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;IAGX,gD;MAQI,OAAMW,4BAAO,YAAP,  
KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAG  
tD,kD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAMW,YAAO,YAAX,GA  
AyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAMW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD  
,kD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAMW,YAAO,YAAX,GAAy  
B,YAAzB,GAA2C,S;K;IAGtD,+C;MAQI,OAAMW,4BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD  
;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAMW,YAAO,YAAX,GAAyB,Y  
AAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OA  
AMW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAA  
zB,GAA2C,S;K;IAGtD,iD;MAQI,OAAMW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,yD;MAQI,IAAI,i  
BAAiB,IAAjB,IAAyB,iBAAiB,IAA9C,C;QACI,IAAI,+BAAE,YAAf,KAAJ,C;UAAiC,MAAM,gCAAYB,6DAAiD  
,YAAjD,wCAAoF,YAApF,OAAzB,C;QACvC,IAAI,4BAAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;QACChC,IAAI,4B

AAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;;QAGhC,IAAI,iBAAiB,IAAjB,IAAyB,4BAAO,YAAP,KAA7B,C;UAAkD,OAAO,Y;QACzD,IAAI,iBAAiB,IAAjB,IAAyB,4BAAO,YAAP,KAA7B,C;UAAkD,OAAO,Y;;MAE7D,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,2D;MAQI,IAAI,6BAAe,YAAf,KAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,yCAAoF,YAApF,iBAAzB,C;MACvC,IAAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MACHc,IAAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MACHc,OAAO,S;K;IAGX,sC;MAUW,Q;MADP,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAGvB,IAAA,KAAM,0BAAiB,SAAjB,EAAuB,KAAM,MAA7B,CAAN,IAA6C,CAAC,KAAM,0BAAiB,KAAM,MAAvB,EAA8B,SAA9B,CAApD,C;QAAiG,OAAN,KAAM,M;WAEjG,IAAA,KAAM,0BAAiB,KAAM,aAAvB,EAAqC,SAArC,CAAN,IAAoD,CAAC,KAAM,0BAAiB,SAAjB,EAAuB,KAAM,aAA7B,CAA3D,C;QAA+G,OAAN,KAAM,a;;QACvG,gB;MALZ,W;K;IASJ,sC;MAYW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAY,KAAZ,C;OAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,gCAAO,KAAM,MAAb,M;QAA4B,OAAN,KAAM,M;WAC5B,gCAAO,KAAM,aAAb,M;QAAMc,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IAOJ,sC;MAYW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAC,KAAc,C;OAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,8BAAO,KAAM,MAAb,M;QAA4B,OAAN,KAAM,M;WAC5B,8BAAO,KAAM,aAAb,M;QAAMc,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IWOJ,sC;MAMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K;IAP3C,gF;IkBQA,yC;MAMI,OAAO,sBAAQ,OAAR,KAAoB,C;K;IAW G,2C;MAAA,qB;QAAE,MAAM,8BAA0B,+CAA4C,AA5C,MAA1B,C;O;K;IAR1C,uC;MAQI,OAAO,8BAAgB,KAAhB,EAAuB,yBAAvB,C;K;IAGX,4D;MACqB,Q;MANjB,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAb,C;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OA AJ,C;UACI,OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;IAGX,8C;MACqB,Q;MANjB,IAAI,QAAQ,CAAZ,C;QACI,OAAO,I;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OA AJ,C;UACI,OAAO,O;;MAEf,OAAO,I;K;8EAGX,gC;MASW,sB;;QA2FS,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IA3FH,SA2FO,CAAU,OA AV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;MA5FP,yB;K;uFAGJ,gC;MAkOoB,Q;MADhB,WA Ae,I;MACC,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,IA1Nc,SA0NV,CAAU,OA AV,CAAJ,C;UACI,OAAO,O;;MA3Nf,OA8NO,I;K;IA3NX,6B;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAA d,C;QACI,MAAM,2BAAuB,oBAAvB,C;MACV,OAAO,QAAS,O;K;IFAGpB,yB;MAAA,iE;MAAA,uC;QAOb,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OA AV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,sDAAvB,C;O;KARV,C;kGAWA,yB;MAAA,iE;MAAA,uC;QAWW,Q;QAAA,+B;;UAcS,U;UAAA,6B;UAAhB,OAAGB,gBAAhB,C;YAAgB,2B;YACZ,aAfwB,SAeX,CAAU,OA AV,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;QApBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,iEAAvB,C;SAAhD,OAAO,I;O;KAXX,C;8GAcA,gC;MAWoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,aAAa,UAAU,OA AV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,mC;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAA d,C;QACI,OAAO,I;MACX,OAAO,QAAS,O;K;6FAGpB,gC;MAMoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OA AV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;IAGX,wC;MAOiB

,Q;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAAnB,C;QACA,IAAI,gBA  
AW,IAAX,CAAJ,C;UACI,OAAO,K;QACX,qB;;MAEJ,OAAO,E;K;+FAGX,yB;MAAA,wE;MAAA,uC;QAOiB,Q  
;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,C;UACA,IAAI,UAAU,I  
AAV,CAAJ,C;YACI,OAAO,K;UACX,qB;;QAEJ,OAAO,E;O;KAbX,C;6FAgBA,yB;MAAA,wE;MAAA,uC;QAO  
iB,Q;QAFb,gBAAgB,E;QACHB,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,  
C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,YAAY,K;UACHB,qB;;QAEJ,OAAO,S;O;KAdX,C;IAiBA,4B;MAUI  
,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,MAAM,2BAAUb,oBAAvB,C;MACV,WAAW,QAAS,O;M  
ACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAAS,O;MACpB,OAAO,I;K;+EAGX,yB;MAAA,iE;MAAA,gB;  
MAAA,8B;MAAA,uC;QAYoB,UAQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;  
UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C  
;UAAy,MAAM,gCAAuB,sDAAvB,C;QAEIB,OAAO,2E;O;KApBX,C;IAuBA,4C;MAQiB,Q;MAFb,gBAAgB,E;  
MACHB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAAnB,C;QACA,IAAI,gBAA  
W,IAAX,CAAJ,C;UACI,YAAY,K;QACHB,qB;;MAEJ,OAAO,S;K;IAGX,kC;MAQI,eAAe,oB;MACf,IAAI,CAAC  
,QAAS,UAAAd,C;QACI,OAAO,I;MACX,WAAW,QAAS,O;MACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAA  
S,O;MACpB,OAAO,I;K;2FAGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB  
,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,OAAO,O;;MAGf,OAAO,I;K;IAGX,8B;MAMI,eAAe,oB;MACf,I  
AAI,CAAC,QAAS,UAAAd,C;QACI,MAAM,2BAAUb,oBAAvB,C;MACV,aAAa,QAAS,O;MACtB,IAAI,QAAS,U  
AAb,C;QACI,MAAM,gCAAyB,qCAAzB,C;MACV,OAAO,M;K;mFAGX,yB;MAAA,kF;MAAA,iE;MAAA,gB;M  
AAA,8B;MAAA,uC;QAQoB,UAST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;U  
AAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAYb,mDAAzB,C;YACj  
B,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,sDAAvB,C;QAEIB,OAAO,  
6E;O;KajBX,C;IAoBA,oC;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,OAAO,I;MACX,aAAa,Q  
AAS,O;MACtB,IAAI,QAAS,UAAb,C;QACI,OAAO,I;MACX,OAAO,M;K;+FAGX,gC;MAQoB,Q;MAFhB,aAAi  
B,I;MACjB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;U  
ACI,IAAI,KAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAy,O  
AAO,I;MACnB,OAAO,M;K;IAGX,8B;MAWW,Q;MhBhXP,IAAI,EgB+WI,KAAK,ChB/WT,CAAJ,C;QACI,cgB  
8Wc,sD;QhB7Wd,MAAM,gCAAyB,OAAQ,WAAjC,C;OgB+WN,UAAK,CAAL,C;QAAU,gB;WACV,+C;QAAiC  
,OAAL,SAAK,cAAK,CAAL,C;;QACzB,wBAaA,SAAb,EAAmB,CAAnB,C;MAHZ,W;K;IAOJ,2C;MAQI,OAAO,  
sBAAkB,SAaIB,EAAwB,SAAxB,C;K;IAGX,wC;MAQI,OAAO,sBAAkB,SAaIB,EAAwB,IAAxB,EAA8B,SAa9  
B,C;K;IACqE,iD;MAAA,qB;QAAE,yBAAU,EAAG,MAAb,EAAoB,EAAG,MAAvB,C;O;K;IAAkC,oC;MAAE,O  
AAA,EAAG,M;K;IAXzH,+C;MAWI,OAAO,yBAAqB,sBAAkB,qBAAiB,SAAjB,CAAIB,EAA0C,IAA1C,EAAGd  
,+BAAhD,CAArB,EAAYG,sBAAZG,C;K;oGAGX,yB;MA80BA,wE;MA90BA,oD;QAU1BiB,gB;QADb,YAAY,C;  
QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA50BT,IAAI,UA40BkB,oBAAmB,cAAAnB,EAAmB,sBAAnB,UA50  
BIB,EA40B+C,IA50B/C,CAAJ,C;YAA2C,sBA40BQ,IA50BR,C;;QAE/C,OAAO,W;O;KAbX,C;sGAgBA,yB;MA  
AA,8C;MAAA,0C;MAAA,8B;MASkB,qD;QAAA,qB;UAAE,c;S;O;MATpB,sC;QASW,Q;QAAP,OAAO,uCAA0,  
iCAAP,gC;O;KATX,C;0GAYA,4C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,  
YAAJ,C;UAAkB,WAAy,WAAI,OAAJ,C;;MACpD,OAAO,W;K;IAGX,2C;MAQI,OAAO,sBAAkB,SAaIB,EAA  
wB,KAAxB,EAA+B,SAAB,C;K;IAYU,kC;MAAE,iB;K;IATvB,oC;MASW,Q;MAAP,OAAO,4CAAU,oBAAV,k  
C;K;IAGX,mD;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,eAAJ,C;UAAqB,W  
AAy,WAAI,OAAJ,C;;MACvD,OAAO,W;K;4FAGX,6C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAA  
gB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAy,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;sFA  
GX,6C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UA  
AwB,WAAy,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;IAGX,8B;MAWW,Q;MhBzgBP,IAAI,EgBwgBI,KAAK,Ch  
BxBT,CAAJ,C;QACI,cgBugBc,sD;QhBtgBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OgBwgBN,UAAK,CAAL,C;Q  
AAU,sB;WACV,+C;QAAiC,OAAL,SAAK,cAAK,CAAL,C;;QACzB,wBAaA,SAAb,EAAmB,CAAnB,C;MAHZ,  
W;K;IAOJ,2C;MAQI,OAAO,sBAAkB,SAaIB,EAAwB,SAAxB,C;K;IAWA,2C;MAAA,8B;K;8CACH,Y;MACI,i  
BAA6B,iBAAZ,gBAAY,C;MACIB,QAAX,UAAW,C;MACX,OAAO,UAAW,W;K;;IAZ9B,6B;MAQI,0C;K;sFAS  
J,yB;MAAA,sD;Mdjfa,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YA

AtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;Mc0ef,sC;QAU I,OOAO,sBdpfP,eAAW,iBcofiB,QdpfjB,CAAX,CcofO,C;O;KAVX,C;OGAaA,yB;MAAA,sD;Md3eA,sC;MAAA,o C;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB ,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;Mcoef,sC;QAQI,OOAO,sBd5eP,eAAW,2Bc4e2B,Qd5e 3B,CAAX,Cc4eO,C;O;KARX,C;IAWA,uC;MAQI,OOAO,wBAAW,cAAAX,C;K;IAWA,uE;MAAA,sC;MAAA,4C; K;kDACH,Y;MACI,iBAAiC,iBAAhB,oBAAgB,C;MAcTb,WAAX,UAAW,EAAS,uBAAT,C;MACX,OOAO,UA AW,W;K;;IAZ9B,6C;MAQI,0D;K;wFASJ,yB;MAAA,wE;MAAA,uC;QAaW,kBAAY,oB;QAiFH,Q;QAAA,2B;Q AAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAlFsC,SakFvB,CAAU,OOAV,C;UvBnEnB,wBAAL,IAAK,MAA T,EAAGB,IAAK,OOArB,C;;QuBfA,OAoFO,W;O;KAjGX,C;6FAGBA,yB;MAAA,wE;MAAA,yC;QAaW,kBAAc, oB;QA8BL,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAAy,aA/B4B,WA+BxB,CAAY,OOA Z,CAAJ,EAA0B,OOA1B,C;;QA/BhB,OAiCO,W;O;KA9CX,C;6FAGBA,yB;MAAA,wE;MAAA,yD;QAYW,kBA Ac,oB;QAiCL,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAAy,aAIC4B,WakCxB,CAAY,OA AZ,CAAJ,EAlCyC,cAkCf,CAAe,OOAf,CAA1B,C;;QAiChB,OAoCO,W;O;KAhDX,C;iGAeA,+C;MAYoB,Q;MA AA,2B;MAAhB,OOAgB,cAAhB,C;QAAGB,yB;QACZ,WAAy,aAAI,YAAy,OOAZ,CAAJ,EAA0B,OOA1B,C;;M AEhB,OOAO,W;K;iGAGX,+D;MAYoB,Q;MAAA,2B;MAAhB,OOAgB,cAAhB,C;QAAGB,yB;QACZ,WAAy,aA AI,YAAy,OOAZ,CAAJ,EAA0B,eAAe,OOAf,CAA1B,C;;MAEhB,OOAO,W;K;4FAGX,6C;MAWoB,Q;MAAA,2 B;MAAhB,OOAgB,cAAhB,C;QAAGB,yB;QACZ,WAAe,UAAU,OOAV,C;QvBnEnB,wBAAL,IAAK,MAAT,EAAG B,IAAK,OOArB,C;;MuBqEA,OOAO,W;K;gGAGX,yB;MAAA,wE;MAAA,2C;QAcl,aAAa,oB;QAgBG,Q;QAA A,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UafO,MAgBP,aAAI,OOAJ,EhBe,aAgBF,CAAc,OOAd,CAAb,C;; QAhBhB,OOAuB,M;O;Kaf3B,C;oGakBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OOAgB,cAAhB,C;QAAGB,yB;Q ACZ,WAAy,aAAI,OOAJ,EAAa,cAAc,OOAd,CAAb,C;;MAEhB,OOAO,W;K;IAGX,gD;MAMiB,Q;MAAA,2B;M AAb,OOAa,cAAb,C;QAAa,sB;QACT,WAAy,WAAI,IAAJ,C;;MAEhB,OOAO,W;K;IAGX,gC;MAMI,OOAO,0B AAa,cAAb,C;K;IAGX,8B;MAMI,OOA4B,qBAAhB,iBAAL,SAAK,CAAGB,C;K;IAGhC,qC;MAMI,OOAO,0BAA a,gBAAb,C;K;IAGX,4B;MAQI,OOAwC,oBAAjC,0BAAa,sBAAb,CAAiC,C;K;IAG5C,0C;MAYI,OOAO,uBAAm B,SAAnB,EAAYB,SAAZB,6BAAoC,qB;;OAApC,E;K;IAGX,0C;MAQI,OOAO,uBAAmB,SAAnB,EAAYB,SAAZ B,6BAAoC,qB;;OAApC,E;K;IAGX,iD;MAaI,OOAO,kBAaE,SAaf,EAaqB,SAArB,6BAAgC,qB;;OAAhC,E;K;I AGX,iD;MAaI,OOAO,kBAaE,SAaf,EAaqB,SAArB,6BAAgC,qB;;OAAhC,E;K;sGAGX,yB;MAAA,wE;MAAA, gD;MAAA,oD;QAaoB,UAC4B,M;QAF5C,YAAy,C;QACI,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,W AAW,UAAU,oBAAmB,cAAAnB,EAAMB,sBAAnB,UAAV,EAaUc,OOAvC,C;UACC,OOAZ,WAAy,EAao,IAA P,C;;QAEhB,OOAO,W;O;KAjBX,C;uGAoBA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAaoB,UAC4B,M;QAF5C, YAAy,C;QACI,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,cAAAnB,EAAMB,sB AAnB,UAAV,EAaUc,OOAvC,C;UACC,OOAZ,WAAy,EAao,IAAP,C;;QAEhB,OOAO,W;O;KAjBX,C;yFAoB A,yB;MAAA,gD;MAAA,oD;QAUoB,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAA U,OOAV,C;UACC,OOAZ,WAAy,EAao,IAAP,C;;QAEhB,OOAO,W;O;KAdX,C;yFAiBA,yB;MAAA,gD;MAA A,oD;QAMoB,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OOAV,C;UACC,OA AZ,WAAy,EAao,IAAP,C;;QAEhB,OOAO,W;O;KAVX,C;qFAaA,yB;MAAA,wE;MA6BA,+D;MA7BA,yC;QA WW,kBAAU,oB;QA6BD,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,UA9BiD,WA8BvC,CAAY ,OOAZ,C;UvBjoBP,U;UADP,YuBmoBe,WvBnoBH,WuBmoBwB,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auB ioBuC,gB;YAA5B,WvBhoBX,auBgoBgC,GvBhoBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuB6nBA,iB;UACA,IA AK,WAAI,OOAJ,C;;QAhCT,OAkCO,W;O;KA7CX,C;qFAcA,yB;MAAA,wE;MAkCA,+D;MAiCA,yD;QAYW, kBAAU,oB;QAKCD,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,UAnCiD,WAmCvC,CAAY,OA AZ,C;UvBrpBP,U;UADP,YuBupBe,WvBvpBH,WuBupBwB,GvBvpBxB,C;UACL,IAAI,aAAJ,C;YACH,auBqpBu C,gB;YAA5B,WvBppBX,auBopBgC,GvBppBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuBipBA,iB;UACA,IAAK ,WArCyD,cAqCrD,CAAe,OOAf,CAAJ,C;;QArCT,OAuCO,W;O;KAnDX,C;yFAeA,yB;MAAA,+D;MAAA,sD;Q AWoB,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAy,OOAZ,C;UvBjoBP,U;UADP, YuBmoBe,WvBnoBH,WuBmoBwB,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auBioBuC,gB;YAA5B,WvBhoBX ,auBgoBgC,GvBhoBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuB6nBA,iB;UACA,IAAK,WAAI,OOAJ,C;;QAET, OAAO,W;O;KAhBX,C;yFAmBA,yB;MAAA,+D;MAAA,sE;QAYoB,Q;QAAA,2B;QAAhB,OOAgB,cAAhB,C;U

AAgB,yB;UACZ,UAAU,YAAAY,OAAZ,C;UvBrpBP,U;UADP,YuBupBe,WvBvpBH,WuBupBwB,GvBvpBxB,C;U  
ACL,IAAI,aAAJ,C;YACH,auBqpBuC,gB;YAA5B,WvBppBX,auBopBgC,GvBppBhC,EAAS,MAAT,C;YACA,e;;  
YAEA,c;;UuBipBA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAjBX,C;0FAoBA,yB;M  
AAA,kC;MAAA,4C;MAAA,wE;QAUW,sC;QAAA,8C;O;MAVX,oDAWQ,Y;QAA6C,OAAA,oBAAgB,W;O;MA  
XrE,iDAYQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAZ5C,gF;MAAA,yC;QAUI,2D;O;KAVJ,C;IAGBA,sC;MASI,OA  
AO,yBAaQb,SAArB,EAA2B,SAA3B,C;K;IAGX,4C;MASI,OAAO,gCAA4B,SAA5B,EAakC,SAAIC,C;K;IAGX,  
mD;MASI,OAAoD,gBAA7C,gCAA4B,SAA5B,EAakC,SAAIC,CAA6C,C;K;4GAGxD,yB;MAuNA,wE;MAvNA,  
oD;QAGoiB,gB;QADb,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAvNsB,U;UAAA,wBAuNT,oBAA  
mB,cAAAnB,EAAMb,sBAAnB,UAvNS,EAuNoB,IAvNpB,W;YAA6C,6B;;QACHf,OAAO,W;O;KAVX,C;8FAaA,  
yB;MAAA,wE;MAAA,oD;QAUiB,UACoC,M;QAFjD,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAC  
T,WAAAY,WAAI,UAAU,oBAAMb,cAAAnB,EAAMb,sBAAnB,UAAV,EAAC,IAAvC,CAAJ,C;;QACHb,OAAO,  
W;O;KAZX,C;IAeA,4C;MASI,OAA6C,gBAAtC,yBAaQb,SAArB,EAA2B,SAA3B,CAAsC,C;K;8FAGjD,yB;MA  
AA,oD;QA4KoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArKK,U;UAAA,wBAqKQ,OArKR,W;Y  
AAsC,6B;;QAC3D,OAAO,W;O;KARX,C;iFAWA,6C;MAOIb,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;Q  
ACT,WAAAY,WAAI,UAAU,IAAV,CAAJ,C;;MACHb,OAAO,W;K;IAGX,gC;MAOI,OAAO,qBAAiB,SAAjB,C;K;  
IACgB,6B;MAAE,S;K;IAX7B,+B;MAWI,OAAAY,aAAL,SAAK,EAAW,eAAX,C;K;IAGhB,2C;MAYI,OAAO,qBA  
AiB,SAAjB,EAAB,QAAvB,C;K;IAGX,mC;MASiB,Q;MADb,UAAU,sB;MACG,2B;MAAb,OAAa,cAAb,C;QA  
Aa,sB;QAAM,GAAL,WAAI,IAAJ,C;;MACvB,OAAO,G;K;6EAGX,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,c  
AAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;IAGX,  
2B;MAQI,OAAO,oBAAW,U;K;6EAGtB,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA  
M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;IAGX,6B;MAOoB,Q;MADhB,YAAAY,C  
;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,oBAAMb,qBAAnB,EAAMb,KAAAnB,E;;MACtB,OA  
AO,K;K;iFAGX,yB;MAAA,wE;MAAA,uC;QAOb,Q;QADhB,YAAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;U  
AAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAMb,qBAAnB,EAAMb,KAAAnB,E;;QAC9C,OAA  
O,K;O;KARX,C;8EAWA,yC;MAYoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB  
;QAAM,cAAc,UAAU,WAAV,EAAB,QAAvB,C;;MACpC,OAAO,W;K;4FAGX,yB;MAAA,wE;MAAA,gD;QAc  
oB,UAAiD,M;QAFjE,YAAAY,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,cA  
Ac,UAAU,oBAAMb,cAAAnB,EAAMb,sBAAnB,UAAV,EAAC,WAAvC,EAAd,OAApD,C;;QACpC,OAAO,W;  
O;KafX,C;qFAkBA,6B;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;  
K;kGAG1B,yB;MAAA,wE;MAAA,oC;QASiB,UAAgC,M;QAD7C,YAAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;U  
AAa,sB;UAAM,OAAO,oBAAMb,cAAAnB,EAAMb,sBAAnB,UAAP,EAAC,IAAP,C,C;;O;KATvB,C;IAYA,2B;M  
AII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAYP,eA  
Ae,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAp,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,C  
AAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAp,uB;SACzB,eAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,QAAQ,Q  
AAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,  
WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MAzBP,yB;K;6FAGJ,+B;MASI,eAAe,oB;MACf,IAAI,C  
AAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,  
OAAO,O;MACHC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2  
BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MACIB,OAAO,O;K;iFAG  
X,yB;MAAA,sE;MZpwCA,iB;MYowCA,sC;QAEI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM  
,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C  
;UACR,WZhxCG,MAAO,KYgxCO,QZhxCP,EYgxCiB,CZhxCjB,C;;QYkxCd,OAAO,Q;O;KATBX,C;iFAyBA,yB;  
MAAA,sE;MZxyCA,iB;MYwyCA,sC;QAEI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;Q  
AC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UAC  
R,WZpzCG,MAAO,KYozCO,QZpzCP,EYozCiB,CZpzCjB,C;;QYszCd,OAAO,Q;O;KATBX,C;iFAyBA,yB;MAA  
A,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,Q  
AAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CA  
AX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KATBX,C;6FAyBA,yB;MZ/0CA,iB;MY+0CA,sC;QAaI,eAA

e,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZz1CG,MAAO,KYy1CO,QZz1CP,EYy1CiB,C,Zz1CjB,C;;QY21Cd,OAAO,Q;O;KApBX,C;6FAuBA,yB;MZj3CA,iB;MYi3CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZ33CG,MAAO,KY23CO,QZ33CP,EY23CiB,CZ33CjB,C;;QY63Cd,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;yFAGX,yB;MAAA,sE;MAAA,kD;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;qGAYBA,2C;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZ18CG,MAAO,KY08CE,GZ18CF,EY08CO,CZ18CP,C;;MY48Cd,OAAO,G;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZx+CG,MAAO,KYw+CE,GZx+CF,EYw+CO,CZx+CP,C;;MY0+Cd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAaA,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAYP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MAzBP,yB;K;6FAGJ,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,O;MACHc,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MACIB,OAAO,O;K;iFAGX,yB;MAAA,sE;MZj3CA,iB;MYi3CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZ73CG,MAAO,KY63CO,QZ73CP,EY63CiB,CZ73CjB,C;;QY+3Cd,OAAO,Q;O;KAtBX,C;iFAYBA,yB;MAAA,sE;MZr5CA,iB;MYq5CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZj6CG,MAAO,KYi6CO,QZj6CP,EYi6CiB,CZj6CjB,C;;QYm6Cd,OAAO,Q;O;KAtBX,C;iFAYBA,yB;MAAA,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;6FAYBA,yB;MZ57CA,iB;MY47CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZx+CG,MAAO,KYw+CO,QZx+CP,EYw+CiB,CZx+CjB,C;;QY0+Cd,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;yFAGX,yB;MA

AA,sE;MAAA,kD;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,UAAW,SA AQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;qGAyB A,2C;MAWl,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,eAAe,SAAS,QAAS,OAAI B,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,UAAW,SAAQ,QAAR,E AakB,CAAIB,CAAX,GAakC,CAAtC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MAC f,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QA CI,QAAQ,QAAS,O;QACjB,MZvjDG,MAAO,KYujDE,GZvjDF,EYujDO,CZvjDP,C;;MYyjDd,OAAO,G;K;IAGX, iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OA AO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZrIDG,MAAO,KYqlDE,GZrIDF,EYqlDO,CZrIDP,C;;MY ulDd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAA U,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KA AJ,C;UA Aa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MAC f,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHc,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QA CI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAaA,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM ,C;;MAE9C,OAAO,G;K;IAGX,4B;MAQI,OAAO,CAAC,oBAAW,U;K;+EAGvB,gC;MAQoB,Q;MAAA,2B;MAA hB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OA AV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K; IAUI,uC;MAAA,qB;QACP,eAAO,EAAP,C;QAAA,OACA,E;O;K;IATR,sC;MAOI,OAAO,kBAAL,qBA AJ,C;K;IA eW,8C;MAAA,iC;QACd,eAAO,KAAP,EAAC,OAAd,C;QAAA,OACA,O;O;K;IAXR,6C;MASI,OAAO,wBAAW,4 BAAX,C;K;kFAMX,yB;MAAA,4F;MAAA,uC;QAEI,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAAd,C;UAA yB,MAAM,mCAA8B,kCAA9B,C;QAC/B,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UA AU,WAAV,EA AuB,QAAS,OAAhC,C;;QAEIB,OAAO,W;O;KArBX,C;gGAWBA,yB;MAAA,4F;MAAA,wE;MA AAA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,mCAA8B,k CAA9B,C;QAC/B,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oB AAmB,YAAnB,EAAMB,oBAAnB,QA AV,EA AuC,WAAvC,EA AoD,QAAS,OAA7D,C;;QAEIB,OAAO,W;O;KAt BX,C;4GAyBA,yB;MAAA,wE;MAAA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UA Ad,C;UAAyB,OAAO,I;QAChC,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cA Ac,UAAU,oBAAMB,YAAnB,EAAMB,oBAAnB,QA AV,EA AuC,WAAvC,EA AoD,QAAS,OAA7D,C;;QAEIB,OA AO,W;O;KAtBX,C;8FAyBA,gC;MAGBI,eAAe,SAAK,W;MACpB,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I ;MACHc,kBAAqB,QAAS,O;MAC9B,OAAO,QAAS,UAAhB,C;QACI,cAAc,UAAU,WAAV,EA AuB,QAAS,OAA hC,C;;MAEIB,OAAO,W;K;IAoBS,2I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,gD;MAAA,kD;MAA A,wB;MAAA,+B;MAAA,kC;K;;;sDAAA,Y;;;cACZ,gB;8BAAA,iCAAM,0BAAN,O;kBAAA,2C;uBAAA,yB;cA AA,Q;;;uCACkB,0B;cACF,wD;cAAhB,gB;;;cAAA,KAAgB,yBAhB,C;gBAAA,gB;;;cAAgB,oC;cACZ,yBAAc, 6BAAU,sBAAV,EA AuB,OAAvB,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAF J,gB;;;cAIJ,W;;;K;IAPgB,wF;MAAA,yD;uBAAA,+H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAjBpB,sD;M AiBI,OAAO,SAAS,iDAAT,C;K;IA4BS,yJ;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,8D;MAAA,kD; MAAA,wB;MAAA,yB;MAAA,+B;MAAA,kC;K;;;6DAAA,Y;;;kBAKmC,I;cAJ/C,gB;8BAAA,iCAAM,0BAAN, O;kBAAA,2C;uBAAA,yB;cAAA,Q;;;iCACY,C;uCACM,0B;cACF,+D;cAAhB,gB;;;cAAA,KAAgB,yBAhB,C;g BAAA,gB;;;cAAgB,oC;cACZ,yBAAc,6BAAU,oBAAMB,uBAAnB,EAAMB,+BAAnB,QA AV,EA AuC,sBAAvC,E AAoD,OAApD,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;K;IARgB,sG;MAAA,yD;uBAAA,6I;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAIBpB,6D;MAKBI,OAAO,SAAS, wDAAT,C;K;IA2BS,4H;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,oD;MAAA,kD;MAAA,4B;MAAA,+B;MAA A,kC;K;;;wDAAA,Y;;;oCACG,wC;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gB;gCAAA,iC AAM,sBAAN,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBAFJ,gB;;;cAGI,gB;;;cAAA,KAAO,mBAAS,UAAhB,C ;gBAAA,gB;;;cACI,yBAAc,6BAAU,sBAAV,EA AuB,mBAAS,OAAhC,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;k BAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAHJ,gB;;;cAQJ,W;;;K;IAVgB,yE;MAAA,yD;uBAAA,gH;Y AAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAHbPb,+C;MAGBI,OAAO,SAAS,0CAAT,C;K;IA6BS,0I;MAAA,wC;MAAA ,6B;MAAA,yB;MAAA,kE;MAAA,kD;MAAA,4B;MAAA,+B;MAAA,yB;MAAA,kC;K;;;+DAAA,Y;;;cAOuC,Q

;oCANpC,+C;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gB;gCAAA,iCAAM,sBAAN,O;oBAA  
A,2C;yBAAA,yB;gBAAA,Q;;gBAFJ,gB;;;;iCAGgB,C;cACZ,gB;;;cAAA,KAAO,mBAAS,UAAhB,C;gBAAA,g  
B;;;cACI,yBAAc,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,sBAAvC,EAAoD,mBAAS,OA  
A7D,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAJJ,gB;;;cASJ,W;;;;;  
;;;;;K;IAXgB,uF;MAAA,yD;uBAAA,8H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAhBpB,sD;MAgBI,OAAO,SA  
S,iDAAT,C;K;IAcX,+C;MAkBI,OAAO,yBAAY,OAAZ,EAAqB,SAArB,C;K;IAGX,sD;MAmBI,OAAO,gCAAmB  
,OAAhB,EAA4B,SAA5B,C;K;gFAGX,+B;MASoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;Q  
AAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;4FAGX,+B;MASoB,Q;MADhB,UAAkB,G;  
MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,+  
B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT  
,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,  
yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;iFAGX,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB  
,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,O  
AAO,G;O;KAFx,C;iFAkBA,yB;M3B15DA,6B;M2B05DA,sC;QAaoB,Q;QADhB,U3B55DmC,c2B45DnB,C3B55  
DmB,C;Q2B65DnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,M3BhuEiD,c2BguEjD,G3BhuE2D,KAAK,  
G2BguEzD,SAAS,OAAT,C3BhuEoE,KAAAX,IAAf,C;;Q2BkuErD,OAAO,G;O;KAhBX,C;iFAMBA,yB;MX16DA,  
+B;MW06DA,sC;QAaoB,Q;QADhB,UX36DqC,eAAW,oBW26D/B,CX36D+B,CAAX,C;QW46DrB,2B;QAAhB,  
OAAgB,cAAhB,C;UAAgB,yB;UACZ,MXhvEmD,eWgvEnD,GXhvE8D,KAAK,KWgvE5D,SAAS,OAAT,CXhvE  
uE,KAAAX,CAAhB,C;;QWkvEvD,OAAO,G;O;KAhBX,C;IAyBe,oD;MAAA,qB;QAAE,e;UAAM,MAAM,gCAAy  
B,2BAAwB,mBAAxB,MAAzB,C;SAAZ,S;O;K;IANjB,qC;MAMI,OAAO,kBAAL,gCAAJ,C;K;IAGX,oC;MAAL,O  
AAO,sBAAS,IAAT,EAAe,IAAf,EAAc,IAAtC,C;K;IAGX,+C;MAkBI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAc  
,IAAtC,EAAwD,SAAXD,C;K;IASA,0D;MAAA,4B;MAAA,sC;K;IAG0B,+E;MAAA,qB;QAAE,IAAI,CAAC,iBA  
AD,IAAY,WAAM,eAAN,CAAhB,C;UAAiC,oBAAU,I;UAA3C,OAAiD,K;;UAAjD,OAA8D,I;O;K;6CAF7F,Y;M  
ACI,kBAAc,KAAAd,C;MACA,OAAkB,SAAX,eAAW,EAAO,kEAAP,CAA8E,W;K;;IAT5G,qC;MAMI,kD;K;IASB  
O,6D;MAAA,wC;MAAA,4B;K;IAG6B,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CAFIC,Y;MACI,YAAqB,  
8BAAT,qBAAS,C;MACrB,OAAkB,YAAX,eAAW,EAAU,4CAAV,CAA0B,W;K;;IAjBxD,sC;MAAL,IAAI,Q9B80  
KG,YAAQ,C8B90Kf,C;QAAwB,OAAO,S;MAC/B,qD;K;IAqBO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA  
,qB;QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,YAAqB,4BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C  
;QACI,OAAO,eAAW,W;;QAEIB,OAAkB,YAAX,eAAW,EAAU,4CAAV,CAA0B,W;K;;IANB5D,sC;MAAL,qD;K;  
IAwBO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,Y  
AAqB,8BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAO,eAAW,W;;QAEIB,OAAkB,YAAX,eAA  
W,EAAU,4CAAV,CAA0B,W;K;;IANB5D,sC;MAAL,qD;K;8FAWJ,yB;MAAA,4C;MAAA,qC;QAOI,OAAO,iBAA  
M,OAAN,C;O;KAPX,C;wFAUA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAYoB,Q;QAFhB,YAAY,gB;QACZ,aA  
Aa,gB;QACG,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,W  
AAI,OAAJ,C;;YAEN,MAAO,WAAL,OAAJ,C;;QAGf,OAAO,cAAK,KAAL,EAAZ,MAAZ,C;O;KANBX,C;IASB  
A,oC;MAMI,OAA6C,UAAtC,YAAW,SAAX,EAAiB,YAAW,OAAX,EAAjB,EAAc,C;K;IAGjD,qC;MASI,OAA  
Y,OAAL,SAAK,EAAc,OAAT,QAAS,CAAd,C;K;IAGhB,qC;MASI,OAA+C,UAAxC,YAAW,SAAX,EAA0B,aA  
AT,QAAS,CAA1B,EAAwC,C;K;IAGnD,sC;MASI,OAAkC,UAA3B,YAAW,SAAX,EAAiB,QAAjB,EAA2B,C;K;  
4FAGtC,yB;MAAA,0C;MAAA,qC;QAOI,OAAO,gBAAK,OAAL,C;O;KAPX,C;IAUA,2D;MAgB+C,oB;QAAA,  
OAAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACpF,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EAA6B,cAA7B,EAA2  
D,KAA3D,C;K;IAGX,sE;MAkBkD,oB;QAAA,OAAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACvF,OAAwE,OAAjE  
,8BAAiB,IAAjB,EAAuB,IAAvB,EAA6B,cAA7B,EAA2D,IAA3D,CAAiE,EAAI,SAAJ,C;K;IAYpC,4B;MAAY,c  
AAM,EAAAN,C;K;IATpD,kC;MASI,OAAO,oBAAGB,SAAhB,EAAcB,KAAtB,EAA6B,UAA7B,C;K;IAGX,6C;M  
AUI,OAAO,oBAAGB,SAAhB,EAAcB,KAAtB,EAA6B,SAA7B,C;K;IACy,kC;MAAU,aAAK,CAAL,C;K;IAXjC,k  
C;MAWI,OAAO,yBAAY,kBAAZ,C;K;IAeiB,wH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,gD;MAAA,kD;MA  
AA,4B;MAAA,2B;MAAA,wB;MAAA,kC;K;;;sDAAA,Y;;;;oCACL,sC;cACf,IAAI,CAAC,mBAAS,UAAAd,C;gB  
AAyB,M;;gBAAZB,gB;;;;;mCACc,mBAAS,O;cACvB,gB;;;cAAA,KAAO,mBAAS,UAAhB,C;gBAAA,gB;;;gCA  
Ce,mBAAS,O;cACpB,gB;8BAAA,iCAAM,6BAAU,kBAAV,EAAmB,eAAnB,CAAN,O;kBAAA,2C;uBAAA,yB;c



AAA,Q;;cACA,qBAAU,e;cAHd,gB;;;cAKJ,W;;;;;;K;IATwB,uE;MAAA,yD;uBAAA,4G;YAAA,S;iBAAA,Q;  
;iBAAA,uB;O;K;IAZ5B,6C;MAYI,OAAO,SAAS,0CAAT,C;K;IAYX,8F;MAU6D,yB;QAAA,YAA0B,I;MAAM,s  
B;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAA  
O,yB;QAAA,YAAoC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACI,2B;MAAhB,OAAg  
B,cAAhB,C;QAAgB,yB;QACZ,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,C  
AAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAC,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,S  
AAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP  
,OAAO,M;K;IAGX,4F;MAUwC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E  
;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MACjN,OAAO,oBAAO,s  
BAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAeE,SAAtE,CA  
AiF,W;K;IAOXe,8C;MAAA,mB;QAAE,OAAA,eAAK,W;O;K;IAJ3B,kC;MAII,oCAAgB,8BAAhB,C;K;2FAGJ,q  
B;MAKI,OAAO,S;K;IAGX,+B;MASoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAgB,c  
AAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAAnB,E;;MAEJ,OAAW,UAAS,CA  
Ab,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;  
MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAAnB  
,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,U  
AAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAm  
B,qBAAnB,EAAmB,KAAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IA  
GjD,+B;MASoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QA  
CZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAA  
vB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,C;MACD,2B;MAAhB,OAAg  
B,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAAnB,E;;MAEJ,OAAW,UAAS,  
CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MACIB,YAAiB,  
C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAA  
nB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,2B;MAQoB,Q;MADh  
B,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;M  
AQoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O;;MAEX,OAAO,  
G;K;IAGX,2B;MAQoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O  
AAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,Y;MACgB,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;  
QACZ,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,G;MACD,2B;MAAhB,OAAg  
B,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAkB,G;MACF,2  
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IC71FX,qC;MAMI,aAAa,qBAA  
iB,YAAY,cAAZ,CAAjB,C;MACb,kBAAC,KAAAd,C;MX4zBgB,Q;MAAA,OW3zBT,SX2zBS,W;MAAhB,OAAgB  
,cAAhB,C;QAAgB,2B;QAAU,oB;QW3zBK,IAAI,CAAC,SAAD,IAAY,OX2zBX,SW3zBW,UAAhB,C;UAAiC,Y  
AAU,I;UAA3C,mBAAiD,K;;UAAjD,mBAA8D,I;;QX2zBvE,qB;UW3zBD,MX2zBqC,WAAI,SAAJ,C;;MW3zB1  
D,OAAqB,M;K;IAGzB,sC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAA  
O,M;K;IAGX,sC;MAUI,YAAqB,gCAAT,QAAS,EAAgC,SAAhC,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAA  
Y,QAAL,SAAK,C;MACHB,IAAI,yBAAJ,C;QACgB,kBAAY,sB;QXixBZ,Q;QAAA,OWjxBL,SXixBK,W;QAAhB  
,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CWjxBwB,qBXixBb,OWjxBa,CXixB5B,C;YAAyB,WAAy,WAAI,  
OAAJ,C;;QWjxBvD,OXkxBG,W;OWjxBP,aAAa,qBAAiB,SAAjB,C;MACb,MAAO,mBAAU,KAAV,C;MACP,O  
AAO,M;K;IAGX,uC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAAO,M;  
K;gGAGX,yB;MAAA,8C;MAAA,qC;QAOI,OAAO,iBAAM,OAAN,C;O;KAPX,C;IAUA,qC;MAMI,aAAa,qBAAi  
B,YAAY,iBAAO,CAAP,IAAZ,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACP,MAAO,WAAI,OAAJ,C;MAC  
P,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAK,KAAL,GAAY,QAAS,OAARB,IAAZ,CAAjB,C;MA  
Cb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,sC;MAMuD,UA  
AT,M;MAA1C,aAAa,qBAAiB,YAAY,WAA4C,QAAS,CAAT,YAA4C,cAAL,WAAvC,4BAA2D,SAAK,K  
AAL,GAAY,CAAZ,IAAvE,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACA,OAAP,MAAO,EAAO,QAAP,C;  
MACP,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAK,KAAL,GAAY,CAAZ,IAAZ,CAAjB,C;MACb

,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;8FAGX,yB;MAAA,4C;M  
AAA,qC;QAOI,OAAO,gBAAK,OAAL,C;O;KAPX,C;InBnIA,oD;MAMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K  
;IAP3C,gF;ICGA,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;gGmBYA,yB;MAAA,uD;MAAA,  
gC;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAc,qBAAL,KAJ,CAAtC,GAAcD,uBAA  
a,KAAb,E;O;KAPjE,C;gGAUA,yB;MAAA,+C;MAAA,mC;QAOI,OAAU,UAAL,SAAK,EAAU,KAAB,C;O;KAP  
hB,C;0EAUA,yB;MA4EA,6C;MAAA,oC;MAAA,gC;MA5EA,uC;QAOW,sB;;UAyES,Q;UAAA,0B;UAAhB,OA  
gB,cAAhB,C;YAAgB,oC;YAAM,IAzEH,SAyEO,CAAU,oBAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;UAC9C  
,qBAAO,I;;QAI1EP,yB;O;KAPJ,C;kFAUA,yB;MAwJA,mD;MAAA,+C;MAAA,oC;MAxJA,uC;QAOW,qB;;UAuJ  
O,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAAd,OAAC,cAAAd,C;YAAc,uB;YACV,cAAc,qBAAK,KAAL,C;YA  
Cd,IAzJc,SAyJV,CAAU,oBAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;QA3JP,wB;O;KAPJ,  
C;IAUA,6B;MAKI,ICkOgD,qBAAU,CDIO1D,C;QACI,MAAM,2BAAuB,yBAAvB,C;MACV,OAAO,qBAAK,CA  
AL,C;K;4EAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,iE;MAAA,uC;QAKoB,Q;QAAA,0B;QAAhB,OA  
AgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,  
6DAAvB,C;O;KANV,C;6FASA,yB;MAAA,iE;MAYA,6C;MAAA,oC;MAAA,gC;MAZA,uC;QASW,Q;QAAA,+B  
;;UAYS,U;UAAA,4B;UAAhB,OAAGB,gBAAhB,C;YAAgB,sC;YACZ,aAbwB,SAaX,CAAU,oBAAV,C;YACb,IA  
AI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;QAI1BA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,sEA  
AvB,C;SAAhD,OAAO,I;O;KATX,C;yGAYA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QASoB,Q;QAAA  
,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,aAAa,UAAU,oBAAV,C;UACb,IAAI,cAAJ,C;YACI,OAAO,M  
;;QAGf,OAAO,I;O;KafX,C;IAkBA,mC;MAII,OCkLgD,qBAAU,CDILnD,GAAe,IAAf,GAAyB,qBAAK,CAAL,C  
;K;wFAGpC,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAIoB,Q;QAAA,0B;QAAhB,OAAGB,cAAhB,C;U  
AAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,OAAO,I;O;KALX,C;mFAQA,yB;  
MAAA,uD;MAAA,gC;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAc,qBAAL,KAJ,CA  
AtC,GAAcD,uBAAa,KAAb,E;O;KALjE,C;IAQA,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,2BAA3B,GAAcC  
,qBAAL,KAJ,CAAtC,GAAcD,I;K;0FAGjE,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAIkB,gC;QAAA,6B;QAAA,  
mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QAGf,  
OAAO,E;O;KATX,C;wFAYA,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR  
,sBAAQ,CAAR,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,O  
AAO,K;;QAGf,OAAO,E;O;KATX,C;IAYA,4B;MAQI,ICsHgD,qBAAU,CDtH1D,C;QACI,MAAM,2BAAuB,yBA  
AvB,C;MACV,OAAO,qBAAK,2BAAL,C;K;0EAGX,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,u  
C;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc  
,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnc,MAAM,gCAAuB,6DAAvB,  
C;O;KAZV,C;IAeA,kC;MAMI,OC4FgD,qBAAU,CD5FnD,GAAe,IAAf,GAAyB,qBAAK,mBAAS,CAAT,IAAL,C  
;K;sFAGpC,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,C  
AAQ,CAAb,W;QAAd,OAAC,cAAAd,C;UAAc,uB;UACV,cAAc,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CA  
AJ,C;YAAwB,OAAO,O;;QAEnc,OAAO,I;O;KAVX,C;8EAaA,yB;MAAA,mC;MAAA,yC;MAAA,4B;QAQI,OA  
AO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;MAOI,IC0DgD,qBAAU,CD1D1D,C;QACI,MAAM,2BAAuB,yBAAv  
B,C;MACV,OAAO,qBAAL,MAAO,iBAAQ,gBAAR,CAAX,C;K;0FAGX,yB;MAAA,mC;MAAA,qD;MAAA,4B;  
QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,ICqCgD,qBAAU,CDrC1D,C;QACI,OAAO,I;MACX  
,OAAO,qBAAL,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,8B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,  
C;UAAK,MAAM,2BAAuB,yBAAvB,C;aACX,C;UAAK,4BAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,0  
CAAzB,C;;MAHIB,W;K;8EAOJ,yB;MAAA,6C;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;MAAA,  
uC;QAMoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAy,K;QACI,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UAC  
Z,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,MAAM,8BAAyB,wDAAzB,C;YACjB,SAAS,O;YA  
CT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,6DAAvB,C;QAEIB,OAAO,4E;O;KafX,C;  
IAkBA,oC;MAII,OAAW,qBAAU,CAAd,GAAiB,qBAAK,CAAL,CAAJB,GAA8B,I;K;0FAGzC,yB;MAAA,6C;M  
AAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAFhB,aAAoB,I;QACpB,YAAy,K;QACI,0B;QAAhB,OAAGB,cAA  
hB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,OAAO,I;YACIB,SAAS,O;Y  
ACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,OAAO,I;QACnB,OAAO,M;O;KAdX,C;IAiBA,+B;MIBzRI

,IAAI,EkBiSI,KAAK,CIBjST,CAAJ,C;QACI,ckBgSc,wD;QIB/Rd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkBgSV,  
OAAO,8BAAC,eAAf,CAAE,EAAa,gBAAb,CAAd,EAAoC,gBAAP,C;K;IAGX,+B;MlBrSI,IAAI,EkB6SI,KAAK  
,CIB7ST,CAAJ,C;QACI,ckB4Sc,wD;QIB3Sd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkB4SV,OLhH6E,oBKgH1D,e  
AAF,CAAE,EAAa,gBAAb,CLhH0D,C;K;IKmHjF,kC;MlBjTI,IAAI,EkByTI,KAAK,CIBzTT,CAAJ,C;QACI,ckB  
wTc,wD;QIBvTd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkBwTV,OAAO,mBAaKB,gBAAZ,mBAAS,CAAT,IAAY  
,EAAc,CAAd,CAAIb,C;K;IAGX,mC;MIB7TI,IAAI,EkBqUI,KAAK,CIBrUT,CAAJ,C;QACI,ckBoUc,wD;QIBnUd  
,MAAM,gCAAYB,OAAQ,WAAjC,C;OkBoUV,OAAO,mBAaKB,gBAAZ,mBAAS,CAAT,IAAY,EAAc,CAAd,C  
AAIB,C;K;2FAGX,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,  
CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;QACf,  
OAAO,E;O;KATX,C;4FAYA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAC,wBAAd,WAA+B,CAA/B,U;U  
ACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OL5JoF,oBK4JnE,CL5JmE,Ek4JhE,QAAQ,CA  
AR,IL5JgE,C;WK6J5F,OAAO,E;O;KATX,C;oFAYA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAMuB,UAAU,MA  
AK,EAAL,MAAK,EAAL,M;QAAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,  
CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;QACf,OAAO,  
E;O;KATX,C;oFAYA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAMuB,UAAU,MAAK,EAAL,MAAK,EAAL,M;Q  
AAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,E  
AAV,CAAL,C;YACI,OLvLqE,oBKuLpD,KLvLoD,C;WKwL7E,OAAO,E;O;KATX,C;8EAYA,yB;MAAA,yD;M  
AkFA,oC;MAIFA,uC;QAMW,kBAAS,oB;QAKFM,Q;QAAA,uB;QAAtB,iBAAC,CAAd,wB;UACI,cAAc,qBAAI,  
KAAJ,C;UACd,IApF6B,SAoFzB,CAAU,oBAAV,CAAJ,C;YAAwB,WAAY,gBAAO,OAAP,C;;QApFxC,OAsFO,  
W;O;KA5FX,C;8EASA,yB;MAAA,yD;MAyEA,oC;MAZEa,uC;QAMW,kBAAS,oB;QAYEM,Q;QAAA,uB;QAAt  
B,iBAAC,CAAd,wB;UACI,cAAc,qBAAI,KAAJ,C;UACd,IA3E6B,SA2EzB,CAAU,oBAAV,CAAJ,C;YAAwB,WA  
AY,gBAAO,OAAP,C;;QA3ExC,OA6EO,WA7EqC,W;O;KANhD,C;4FASA,yB;MAAA,yD;MASBA,gC;MA+sBA  
,6C;MAAA,oC;MARuBA,uC;QAQW,kBAAGB,oB;QAouBV,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,  
C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAGB,iB;UA7sB/B,IAvBoC,SAuBhC,CAAU,OAAY,  
EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAvB/C,OAYBO,W;O;KAjCX,C;4FAWA,yB;MAAA,yD;  
MAWA,gC;MA+sBA,6C;MAAA,oC;MA1tBA,uC;QAQW,kBAAGB,oB;QAYtBV,gB;QADb,YAAY,C;QACC,0B;  
QAAb,OAAa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAGB,iB;UA7sB/B,IAZoC,SAY  
hC,CAAU,OAAY,EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAZ/C,OAcO,WAd4C,W;O;KARvD,C;g  
GAWA,yB;MAAA,gC;MA+sBA,6C;MAAA,oC;MA/sBA,oD;QAstBiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OA  
Aa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAGB,iB;UA7sB/B,IAAI,UAAU,OAAY,E  
AAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAE/C,OAAO,W;O;KAXX,C;oFAcA,yB;MAAA,yD;MAkB  
A,6C;MAAA,oC;MAAA,gC;MAIBA,uC;QAMW,kBAAY,oB;QAKBH,Q;QAAA,0B;QAaHb,OAAGB,cAAhB,C;U  
AAGB,oC;UAAM,IAAI,CAIBU,SAkBT,CAAU,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAIB3D,O  
AmBO,W;O;KAZBX,C;oFASA,yB;MAAA,yD;MASA,6C;MAAA,oC;MAAA,gC;MATA,uC;QAMW,kBAAY,oB;  
QASH,Q;QAAA,0B;QAaHb,OAAGB,cAAhB,C;UAGB,oC;UAAM,IAAI,CATU,SAST,CAAU,oBAAV,CAAL,C  
;YAAyB,WAAY,gBAAO,OAAP,C;;QAT3D,OAuO,WAVwC,W;O;KANnD,C;wFASA,yB;MAAA,6C;MAAA,oC  
;MAAA,gC;MAAA,oD;QAMoB,Q;QAAA,0B;QAaHb,OAAGB,cAAhB,C;UAGB,oC;UAAM,IAAI,CAAC,UAA  
U,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAC3D,OAAO,W;O;KAPX,C;kFAUA,yB;MAAA,oC;M  
AAA,oD;QAMoB,Q;QAAA,uB;QAAtB,iBAAC,CAAd,wB;UACI,cAAc,qBAAI,KAAJ,C;UACd,IAAI,UAAU,oBA  
AV,CAAJ,C;YAAwB,WAAY,gBAAO,OAAP,C;;QAExC,OAAO,W;O;KAVX,C;IAaA,sC;MAII,IAAI,OAAQ,UA  
AZ,C;QAAuB,OAAO,E;MAC9B,OAAO,yBAAY,OAaz,C;K;IAGX,sC;MAII,IAAI,OAAQ,UAaz,C;QAAuB,OA  
AO,E;MAC9B,OAAO,uBAAU,OAAY,C;K;IAGX,sC;MAOc,Q;MAHV,WAAmB,wBAAR,OAAQ,EAawB,EAax  
B,C;MACnB,IAAI,SAAQ,CAAZ,C;QAae,OAAO,E;MACTb,aAAa,mBAAC,IAAd,C;MACH,yB;MAAV,OAAU,c  
AAV,C;QAAU,mB;QACN,MAAO,gBAAO,qBAAI,CAAJ,CAAP,C;;MAEX,OAAO,M;K;4EAGX,yB;MAAA,8B;  
MAAA,uC;MAAA,qC;QAKY,Q;QAAR,OAA8B,MAAtB,2DAASB,EAAM,OAAN,CAAe,W;O;KALjD,C;IAQA,+  
B;MlB7fI,IAAI,EkBqgBI,KAAK,CIBrgBT,CAAJ,C;QACI,ckBogBc,wD;QIBngBd,MAAM,gCAAYB,OAAQ,WA  
AjC,C;OkBogBV,OAAO,8BAAY,CAAZ,EAAiB,eAAf,CAAE,EAAa,gBAAb,CAAjB,C;K;IAGX,+B;MlBzgBI,IA  
AI,EkBihBI,KAAK,CIBjhBT,CAAJ,C;QACI,ckBghBc,wD;QIB/gBd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkBgh

BV,OLjV4F,oBKiv3E,CLjV2E,EKivtE,eAAF,CAAE,EAAa,gBAAb,CLjVsE,C;K;IKoVhG,kC;MIBrhBI,IAAI,EkB6hBI,KAAK,CIB7hBT,CAAJ,C;QACI,ckB4hBc,wD;QIB3hBd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkB4hBV,aAAa,gB;MACb,OAAO,8BAAY,SAAW,eAAF,CAAE,EAAa,MAAb,CAAX,IAAZ,EAA6C,MAA7C,C;K;IAGX,mC;MIBliBI,IAAI,EkB0iBI,KAAK,CIB1iBT,CAAJ,C;QACI,ckByiBc,wD;QIBxiBd,MAAM,gCAAYB,OAAQ,WAAjC,C;OkByiBV,aAAa,gB;MACb,OL9W6E,oBK8W5D,SAAW,eAAF,CAAE,EAAa,MAAb,CAAX,IL9W4D,C;K;2FKiXjF,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA AU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,QAAQ,CAAR,IAAZ,EAAuB,gBAAvB,C;;QAGf,OA AO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAXX,C;4FAcA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wB AAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OLvYqE,oBKuYpD, QAAQ,CAAR,ILvYoD,C;;QK0Y7E,OAAO,S;O;KAXX,C;oFAcA,yB;MAAA,oC;MAAA,uC;QAM0B,Q;QAAA,u B;QAAtB,iBAAc,CAAd,wB;UACI,IAAI,CAAC,UAAU,iCAAI,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,CA AZ,EAAe,KAaf,C;WAEf,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAVX,C;oFAaA,yB;MAAA,oC;MAAA,uC; QAM0B,Q;QAAA,uB;QAAtB,iBAAc,CAAd,wB;UACI,IAAI,CAAC,UAAU,iCAAI,KAAL,EAAV,CAAL,C;YACI ,OL/ZoF,oBK+ZnE,CL/ZmE,EK+ZhE,KL/ZgE,C;WKia5F,OAAO,S;O;KAVX,C;IAaA,gC;MAII,OAAO,qBAAc,S AAd,CAAoB,U;K;kFAG/B,yB;MAAA,8B;MAAA,6C;MAAA,4B;QAKY,Q;QAAR,OAA8B,SAAtB,2DAAsB,CA AW,W;O;KAL7C,C;oFAQA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA4EA,6C;MAAA,oC;MAAA,gC;MA5EA,u C;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CAAoB,EAAc,EAAc,C;QAC5B,kBAAY,mBAAoB,QAApB,C;QAYEH ,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAIE8C,SA0E/B,CAAU,oBAAV,C;UzB9EnB,wB AAI,IAAK,MAAT,EAAgB,IAAK,OAAR,B,C;;QyBIA,OA4EO,W;O;KAXFX,C;wFAeA,yB;MAAA,0D;MAAA,yD; MAAA,uE;MA6BA,6C;MAAA,oC;MAAA,gC;MA7BA,yC;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CAAoB,EAA c,EAAc,C;QAC5B,kBAAc,mBAAuB,QAAvB,C;QA2BL,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;U ACZ,WAAAY,aA5BuC,WA4BnC,CAAY,oBAAZ,CAAJ,EAA0B,oBAA1B,C;;QA5BhB,OA8BO,W;O;KA1CX,C;w FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA8BA,6C;MAAA,oC;MAAA,gC;MA9BA,yD;QAU,eAAmC,cAA pB,YAAY,gBAAZ,CAAoB,EAAc,EAAc,C;QAC5B,kBAAc,mBAAoB,QAApB,C;QA6BL,Q;QAAA,0B;QAAhB, OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAAY,aA9BoC,WA8BhC,CAAY,oBAAZ,CAAJ,EA9BiD,cA8BvB,CAAe ,oBAAf,CAA1B,C;;QA9BhB,OA9CO,W;O;KA3CX,C;4FAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sD; QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA0 B,oBAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;4FAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sE;QAUoB, Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA0B,eAAe,o BAAf,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;wFAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAS oB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAe,UAAU,oBAAV,C;UzB9EnB,wBAAI,IAA K,MAAT,EAAgB,IAAK,OAAR,B,C;;QyBgFA,OAAO,W;O;KAZX,C;4FAeA,yB;MAAA,uD;MAAA,0D;MAAA,y D;MAAA,uE;MAgBA,6C;MAAA,oC;MAAA,gC;MAhBA,2C;QAYI,aAAa,mBAA6D,cAAc,YAAmB,aAAP,gB AAO,EAAa,GAAb,CAAnB,CAAsC,EAAc,EAAc,CAA7D,C;QAcG,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UA AgB,oC;UAbO,MAcP,aAAI,oBAAJ,EAd,eAAcF,CAAc,oBAAAd,CAAb,C;;QAdhB,OAAuB,M;O;KAb3B,C;+FAGB A,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,wD;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,o C;UACZ,WAAAY,aAAI,oBAAJ,EAAa,cAAc,oBAAAd,CAAb,C;;QAEhB,OAAO,W;O;KAbX,C;IAGBA,iD;MAIiB, Q;MAAA,4B;MAAb,OAAa,cAAb,C;QAAA,iC;QACT,WAAAY,WAAI,iBAAJ,C;;MAEHb,OAAO,W;K;IAGX,iC;M AII,OAAO,2BAAa,eAAc,YAAmB,eAAP,gBAAO,EAAa,GAAb,CAAnB,CAAd,CAAb,C;K;IAGX,8B;MAIiB,IAA N,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,iCAAK,CAAL,EAAP,C;UA AL,K;gBACa,wBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,qC;MAII,OAAO,2BAAa,iBAAgB,gBAAhB,CAAb, C;K;IAGX,6B;MAMIb,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,i CAAK,CAAL,EAAN,C;UAAL,K;gBACQ,kCAAa,qBAAoB,YAAmB,eAAP,gBAAO,EAAa,GAAb,CAAnB,CAA pB,CAAb,C;UAHL,K;;MAAP,W;K;gFAOJ,yB;MAAA,+D;MA0CA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MA1C A,uC;QAMW,kBAAU,gB;QAwCD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAZC6B,SAyCl B,CAAU,oBAAV,C;UACC,OAAZ,WAAAY,EAAO,IAAP,C;;QA1ChB,OA4CO,W;O;KAIDX,C;8FASA,yB;MAAA ,+D;MAeA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAfA,uC;QAYW,kBAAiB,gB;QAcR,gB;QADhB,YAAY,C;Q ACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAFoC,SAezB,EAAU,cAAV,EAAU,sBAAV,WAAmB,o

BAAnB,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAhBhB,OakBO,W;O;KA9BX,C;kGAeA,yB;MAAA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAy,C;QACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KafX,C;oFAkBA,yB;MAAA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAIoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAW,UAAU,oBAAV,C;UACC,OAAZ,WAAy,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;gFAWA,yB;MAAA,wE;MAyBA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAzBA,yC;QASW,kBAAU,oB;QAYBD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAIBoD,WA0B1C,CAAY,oBAAZ,C;UzBrjBP,U;UADP,YyBujBe,WzBvjBH,WyBujBwB,GzBvjBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBqjBuC,gB;YAA5B,WzBpjBX,ayBojBgC,GzBpjBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBijBA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QA5BT,OA8BO,W;O;KAvcX,C;gFAYA,yB;MAAA,wE;MA8BA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MA9BA,yD;QAUW,kBAAU,oB;QA8BD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UA/BiD,WA+BvC,CAAY,oBAAZ,C;UzBvkBP,U;UADP,YyBykBe,WzBzkBH,WyBykBwB,GzBzkBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBukBuC,gB;YAA5B,WzBtkBX,ayBskBgC,GzBtkBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBmkBA,iB;UACA,IAAK,WAJCyD,cAiCrD,CAAE,oBAaf,CAAJ,C;;QAJCT,OAmmCO,W;O;KA7CX,C;oFAaA,yB;MAAA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sD;QASoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAAU,YAAy,oBAAZ,C;UzBrjBP,U;UADP,YyBujBe,WzBvjBH,WyBujBwB,GzBvjBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBqjBuC,gB;YAA5B,WzBpjBX,ayBojBgC,GzBpjBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBijBA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QAET,OAAO,W;O;KAdX,C;oFAiBA,yB;MAAA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAAU,YAAy,oBAAZ,C;UzBvkBP,U;UADP,YyBykBe,WzBzkBH,WyBykBwB,GzBzkBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBukBuC,gB;YAA5B,WzBtkBX,ayBskBgC,GzBtkBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBmkBA,iB;UACA,IAAK,WAAI,eAAe,oBAaf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;qFAkBA,yB;MAAA,6C;MAAA,oC;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAAGD,OAAgB,SAAhB,oBAAgB,C;O;MATxE,iDAUQ,mB;QAAuC,gCAAY,oBAAZ,C;O;MAV/C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;wEAca,yB;MAAA,gE;MAyEA,6C;MAAA,oC;MAAA,gC;MAzEA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QAUeA,Q;QAAA,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UACT,WAAy,WAXEmB,SAwEf,CAAU,iBAV,CAAJ,C;;QAxEhB,OAYEO,W;O;KAhFX,C;sFAUA,yB;MAAA,gE;MA+BA,6C;MAAA,oC;MAAA,gC;MA/B A,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgCP,gB;QADb,YAAy,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UACT,WAAy,WAJC0B,SAiCtB,EAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QAJChB,OakCO,W;O;KAZCX,C;mGAUA,yB;MAAA,+D;MAUA,gC;MAoLA,6C;MAAA,oC;MA9LA,uC;QAOW,kBAAoB,gB;QA8Ld,gB;QADb,YAAy,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UApLsB,U;UAAA,cAVQ,SAUR,EAoLT,cApLS,EAoLT,sBApLS,WAO LA,iBApLA,W;YAA6C,6B;;QAVhF,OAwo,W;O;KAlBX,C;uGAUA,yB;MAAA,gC;MAoLA,6C;MAAA,oC;MApLA,oD;QA2LiB,gB;QADb,YAAy,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UApLsB,U;UAAA,yBAoLT,cApLS,EAoLT,sBApLS,WAO LA,iBApLA,W;YAA6C,6B;;QACHF,OAAO,W;O;KARX,C;OF AWA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAQiB,UACiB,M;QAF9B,YAAy,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UACT,WAAy,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QACHB,OAAO,W;O;KAVX,C;qFAaA,yB;MAAA,+D;MAUA,gC;MA2IA,6C;MAAA,oC;MArJA,uC;QAOW,kBAAa,gB;QAKJJ,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UA1IK,U;UAAA,cARe,SAQf,CA0IQ,oBA1IR,W;YAA6C,6B;;QAR3D,OASO,W;O;KAhBX,C;yFAUA,yB;MAAA,gC;MA2IA,6C;MAAA,oC;MA3IA,oD;QA+IoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UA1IK,U;UAAA,wBA0IQ,oBA1IR,W;YAA6C,6B;;QAC3D,OAAO,W;O;KANX,C;4EASA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAKiB,Q;QAAA,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UACT,WAAy,WAAI,UAAU,iBAAV,CAAJ,C;;QACHB,OAAO,W;O;KAPX,C;IAe4B,4C;MAAA,mB;QAAE,iC;O;K;IAL9B,iC;MAKI,OAAO,qBAaiB,6BAAjB,C;K;wEAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CAAC,UAAU,oBAAV,CAAL,C;YAAyB,OAAO,K;;QACtD,OAAO,I;O;KAPX,C;IAUA,2B;MAMI,OAAO,ECrwByC,qBAAU,C DqwBnD,C;K;wEAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,I;;QACrD,OAAO,K;O;KAPX,C;4E AUA,qB;MAKI,OAAO,gB;K;4EAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAKoB,Q;QADhB,YAA

Y,C;QACI,0B;QAAhB,0AAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,qB;;QAC9  
C,OAAO,K;O;KANX,C;0EASA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAUoB,Q;QADhB,kBAAkB,  
O;QACF,0B;QAAhB,0AAgB,cAAhB,C;UAAgB,oC;UAAM,cAAc,UAAU,WAAV,EAAuB,oBAAvB,C;;QACpC,  
OAAO,W;O;KAXX,C;wFAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAYoB,UAA8B,M;QAF9C,YA  
AY,C;QACZ,kBAAkB,O;QACF,0B;QAAhB,0AAgB,cAAhB,C;UAAgB,oC;UAAM,cAAc,WAAU,cAAV,EAAU,  
sBAAV,WAAmB,WAAhB,EAAgC,oBAAhC,C;;QACpC,OAAO,W;O;KAbX,C;mfAgBA,yB;MAAA,uD;MAAA,  
oC;MAAA,gD;QAYoC,Q;QAHhC,YAAy,wB;QACZ,kBAAkB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,  
UAAU,kCAAI,YAAJ,EAAI,oBAAJ,SAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAdX,C;iGAiBA,yB;MAA  
A,uD;MAAA,oC;MAAA,gD;QAUI,YAAy,wB;QACZ,kBAAkB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,  
UAAU,KAaV,EAAiB,iCAAI,KAaJ,EAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;gFAm  
BA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAIoB,Q;QAAA,0B;QAAhB,0AAgB,cAAhB,C;UAAgB,o  
C;UAAM,OAAO,oBAAP,C;;O;KAJ1B,C;8FAOA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAOiB,UAA  
a,M;QAD1B,YAAy,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,  
iBAAhB,C;;O;KAPvB,C;IAUA,2B;MAGI,OAAO,uB;K;4EAGX,yB;MAMA,uD;MAAA,oC;MANA,sC;QAGW,s  
B;;UAUP,ICz4BgD,qBAAU,CDy4B1D,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,qBAAK,CAAL,C;UACd,gBA  
AqB,wB;UACrB,IAAI,cAAa,CAAJB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAdmB,QAcJ,CAAS,oBAAT,C;U  
ACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAJBe,QAiBP,CAAS,cAAT,C;YACR  
,IAAI,2BAAW,CAAX,KAaJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;QAvBP,yB;O;KAHJ,C;w  
FAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICz4BgD,qBAAU,CDy4B1D,C;UAAe,OAAO,I;QACtB,cAA  
c,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAJB,C;UAAoB,OAAO,O;QAC3B,eA  
Ae,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAAK,CAAL,C;UACR,QAAQ,SAAS,  
cAAT,C;UACR,IAAI,2BAAW,CAAX,KAaJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAPBX,  
C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdzCA,iB;McynCA,sC;QAEiB,Q;QAFb,ICt6BgD,qBAAU,CD  
s6B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UA  
CI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdloCG,MAAO,KckoCO,QdloCP,EckoCiB,CdloCjB,C;;QcooC  
d,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;Md1pCA,iB;Mc0pCA,sC;QAEiB,Q;QAF  
b,IC57BgD,qBAAU,CD47B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QA  
Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdnqCG,MAAO,KcmqCO,QdnqCP,Ec  
mqCiB,CdnqCjB,C;;QcqqCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MAAA,sC;Q  
AaiB,Q;QAFb,IC9BgD,qBAAU,CDg9B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;Q  
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KA  
AJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;MAAA,oC;MAAA,uD;Md3rCA,iB;Mc2rCA  
,sC;QAaiB,Q;QAFb,ICt+Bgd,qBAAU,CDs+B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C  
;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdlsCG,MAAO,KcksC  
O,QdlsCP,EcksCiB,CdlsCjB,C;;QcosCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;MAAA,uD;Md1tCA,iB;  
Mc0tCA,sC;QAaiB,Q;QAFb,IC1/Bgd,qBAAU,CD0/B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,  
EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdjuCG,MAA  
O,KciuCO,QdjuCP,EciuCiB,CdjuCjB,C;;QemuCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;MAAA,uD;M  
AAA,sC;QAWiB,Q;QAFb,IC5gCgD,qBAAU,CD4gC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,E  
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,C  
AAX,KAaJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;oFAoBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;  
MAAA,kD;QAaiB,Q;QAFb,ICliCgD,qBAAU,CDkiC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,  
EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,S  
AAQ,QAAR,EAakB,CAaIB,CAAX,GAakC,CAAT,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;gGAs  
BA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICtjCgD,qBAAU,CDsjC1D,C;UAAe,OAAO,I;QACt  
B,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,E  
AAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAaIB,CAAX,GAakC,CAAT,C;YACI,WAAW,C;;QAGnB  
,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICtkCgD,qBAAU,CDskC1D,C;QAAe,OAAO,I;MACTB,UAA

U,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,MAAM,C  
AAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAAd,C;K;IAGX,iD;MAOiB,Q;  
MAFb,IC11CgD,qBAAU,CD01C1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU  
,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,EAAa,cAAb,CAAX,GAA6B,CA  
AjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,2B;MAGI,OAAO,uB;K;4EAGX,yB;MAMA,uD;MAAA,o  
C;MANA,sC;QAGW,sB;;UAUP,ICtnCgD,qBAAU,CDsnC1D,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,qBAAK  
,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAdmB,QA  
cJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAjBe,QAiBP,  
CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;Q  
AvBP,yB;O;KAHJ,C;wFAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICtnCgD,qBAAU,CDsnC1D,C;UAAe  
,OAAO,I;QACtB,cAAc,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAo  
B,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAAK,CAAL,  
C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAG  
nB,OAAO,O;O;KApBX,C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdlpCA,iB;MckpCA,sC;QAEiB,Q;QA  
Fb,ICnpCgD,qBAAU,CDmpC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;Q  
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,Wd3pCG,MAAO,Kc2pCO,Qd3pCP,E  
c2pCiB,Cd3pCjB,C;;Qc6pCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdnrCA,iB;  
McmrCA,sC;QAEiB,Q;QAFb,ICzqCgD,qBAAU,CDyqC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CA  
AL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,Wd5rCG,M  
AAO,Kc4rCO,Qd5rCP,Ec4rCiB,Cd5rCjB,C;;Qc8rCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;  
MAAA,uD;MAAA,sC;QAaiB,Q;QAFb,IC7rCgD,qBAAU,CD6rC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iC  
AAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IA  
AI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;MAAA,oC;MAAA,u  
D;MdptCA,iB;McotCA,sC;QAaiB,Q;QAFb,ICntCgD,qBAAU,CDmtC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,i  
CAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,  
Wd3tCG,MAAO,Kc2tCO,Qd3tCP,Ec2tCiB,Cd3tCjB,C;;Qc6tCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;  
MAAA,uD;MdnvCA,iB;McmvCA,sC;QAaiB,Q;QAFb,ICvuCgD,qBAAU,CDuuC1D,C;UAAe,OAAO,I;QACtB,eA  
Ae,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT  
,C;UACR,Wd1vCG,MAAO,Kc0vCO,Qd1vCP,Ec0vCiB,Cd1vCjB,C;;Qc4vCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB  
;MAAA,oC;MAAA,uD;MAAA,sC;QAWiB,Q;QAFb,ICzvCgD,qBAAU,CDyvC1D,C;UAAe,OAAO,I;QACtB,eAA  
e,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C  
;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;oFAoBA,yB;MAAA,sE;  
MAAA,oC;MAAA,uD;MAAA,kD;QAaiB,Q;QAFb,IC/wCgD,qBAAU,CD+wC1D,C;UAAe,MAAM,6B;QACrB,e  
AAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EA  
AT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,O  
AAO,Q;O;KAnBX,C;gGAsBA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICnyCgD,qBAAU,CDmy  
C1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,Q  
AAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC  
,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICnzCgD,qBAAU,CDmzC1D,C  
;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CA  
AL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UA  
Ad,C;K;IAGX,iD;MAOiB,Q;MAFb,ICv0CgD,qBAAU,CDu0C1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CA  
AL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,E  
AAa,cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,4B;MAMI,OCt1CgD,qBA  
AU,C;K;0EDy1C9D,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cA  
AhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,K;;QACrD,OAAO,I;O;KAPX,C;8EA  
UA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAKmC,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,  
oC;UAAM,OAAO,oBAAP,C;;QAARc,gB;O;KALJ,C;4FAQA,yB;MAAA,6B;MAAA,sC;MA/fA,6C;MAAA,oC;M

AAA,gC;MA+fa,2BAQiB,yB;QAvGbjB,6C;QAAA,oC;QAAA,gC;eAugBiB,0B;UAAA,4B;YAAE,aAAe,c;YAhg BjB,gB;YADb,YAAY,C;YACC,0B;YAAb,OAAa,cAAb,C;cAAa,iC;cAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB ,iBAAhB,C;;YAggBmB,W;W;S;OAAzB,C;MARjB,oC;QAxfiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cA Ab,C;UAAa,iC;UAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;QAggBnB,gB;O;KARJ,C;8EAWA,yB; MAAA,4F;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,ICn4CgD,qBAAU,CDm4C1D,C;U ACI,MAAM,mCAA8B,uCAA9B,C;QACV,kBAaKB,qBAaK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UAC I,cAAc,oBAAU,wBAAV,EAAuB,iCAAK,KAAL,EAAvB,E;;QAEIB,OAAO,W;O;KAnBX,C;4FAsBA,yB;MAAA, 4F;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,ICz5CgD,qBAAU,CDy5C1D,C;UACI,MA AM,mCAA8B,uCAA9B,C;QACV,kBAaKB,qBAaK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc, oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,iCAAK,KAAL,EAA9B,E;;QAEIB,OAAO,W;O;KAnBX,C;wGAsBA,y B;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,IC/6CgD,qBAAU,CD+6C1D,C;UACI,OAA O,I;QACX,kBAaKB,qBAaK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB, wBAAjB,EAA8B,iCAAK,KAAL,EAA9B,E;;QAEIB,OAAO,W;O;KAnBX,C;0FAsBA,yB;MAAA,uD;MAAA,oC; MAAA,gC;MAAA,uC;QAIbqB,Q;QAHjB,ICt8CgD,qBAAU,CDs8C1D,C;UACI,OAAO,I;QACX,kBAaKB,qBAA K,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,wBAAV,EAAuB,iCAAK,KAAL,EAAvB, E;;QAEIB,OAAO,W;O;KApBX,C;uFAuBA,yB;MAAA,uD;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAE0B, UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,uCAA9B,C;QACrB,kBAaKB ,sBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,kCAAI,cAAJ,EAAI,sBA AJ,WAAV,EAAwB,wBAAxB,E;;QAEIB,OAAO,W;O;KAnBX,C;qGAsBA,yB;MAAA,uD;MAAA,4F;MAAA,oC; MAAA,gC;MAAA,uC;QAE0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,uCA A9B,C;QACrB,kBAaKB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,K AAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;iHAuBA,yB;M AAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAE0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,O AAO,I;QACtB,kBAaKB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,K AAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;mGAuBA,yB; MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ, C;UAAe,OAAO,I;QACtB,kBAaKB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc, oBAAU,kCAAI,cAAJ,EAAI,sBAAJ,WAAV,EAAwB,wBAAxB,E;;QAEIB,OAAO,W;O;KApBX,C;wFAuBA,yB; MAAA,gD;MAAA,gE;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAgBoB,Q;QAHhB,ICvjDgD,qBAAU,CDu jD1D,C;UAAe,OAAO,OAAO,OAAP,C;QACgB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;QAAiC,8B;QAA9C,af5 wDO,W;Qe6wDP,kBAaKB,O;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAc,UAAU,WAAV,EA AuB,oBAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApBX,C;sGAuBA,yB;MAAA,gD;MAAA ,gE;MAAA,mD;MAAA,oC;MAAA,gD;QAIbKB,gC;QAHd,IC/kDgD,qBAAU,CD+kD1D,C;UAAe,OAAO,OAAO, OAAP,C;QACgB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;QAAiC,8B;QAA9C,afpyDO,W;QeqyDP,kBAaKB,O;Q ACJ,6B;QAAA,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,iCAA K,KAAL,EAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4FAwBA,yB;MAAA,qD;MA AA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0B,Q;QAHtB,ICtmDgD,qBAAU,CDsmD1D,C;UAAe,OAAO,W; QACtB,sBAaKB,qBAaK,CAAL,CAAIB,C;QACqC,kBAAxB,eAAgB,gBAAhB,C;QAAgC,sBAAI,0BAAJ,C;QA A7C,af5zDO,W;Qe6zDe,uB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,oBAAU,0BAAV,EAAuB,iCAAK,KAAL,E AA9B,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KApBX,C;0GAuBA,yB;MAAA,qD;MAAA,gE;M AAA,oC;MAAA,gC;MAAA,uC;QAIb0B,Q;QAHtB,IC9nDgD,qBAAU,CD8nD1D,C;UAAe,OAAO,W;QACtB,sB AaKB,qBAaK,CAAL,CAAIB,C;QACqC,kBAAxB,eAAgB,gBAAhB,C;QAAgC,sBAAI,0BAAJ,C;QAA7C,afp1D O,W;Qeq1De,uB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,oBAAU,KAAV,EAAiB,0BAAjB,EAA8B,iCAAK,KA AL,EAA9B,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KArBX,C;0EAwBA,yB;MA9FA,gD;MAAA, gE;MAAA,6C;MAAA,oC;MAAA,gC;MA8FA,gD;QAcW,sB;;UA5FS,Q;UAHhB,ICvjDgD,qBAAU,CDujD1D,C; YAAe,qBAAO,OA+FH,OA/FG,C;YAAP,uB;WACuB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;UAAiC,sBA8F3B, OA9F2B,C;UAA9C,af5wDO,W;Ue6wDP,kBA6FmB,O;UA5FH,0B;UAAhB,OAAgB,cAAhB,C;YAAgB,oC;YAC Z,cA2FwB,SA3FV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;QA



wFP,yB;O;KAdJ,C;wFAiBA,yB;MAxFA,gD;MAAA,gE;MAAA,mD;MAAA,oC;MAwFA,gD;QAeW,6B;;UAtFO, gC;UAHd,IC/kDgD,qBAAU,CD+kD1D,C;YAAe,4BAAO,OAYFI,OAZFJ,C;YAAP,8B;WACuB,kBAAzB,eAAa,m BAAS,CAAT,IAAb,C;UAAiC,sBAwFpB,OxFOB,C;UAA9C,afpyDO,W;UeqyDP,kBAuF0B,O;UAtFZ,6B;UAA A,mB;UAAA,kB;UAAA,kB;UAAAd,0D;YACI,cAqF+B,SArFjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,iCAAK,K AAL,EAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAKFP,gC;O;KafJ,C;4EAkBA,yB;MAAA,6 C;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAe,C;QACC,0B;QAAhB,OAAGB,cAAhB,C;UAAgB, oC;UACZ,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;KAVX,C;wFAaA,yB;MAAA,6C;MAAA,oC;MAA A,gC;MAAA,sC;QAOoB,Q;QADhB,UAAkB,G;QACF,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,OAAO, SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAVX,C;4EAaA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB ,Q;QADhB,UAAoB,C;QACJ,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,OAAO,SAAS,oBAAT,C;;QAEX, OAAO,G;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,UAAe,C;QA CC,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;KAbX, C;4EAgBA,yB;MAAA,SASoB,gB;MATpB,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACgB,0 B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,cAAO,SAAS,oBAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;4E AgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;M7BppDA,6B;M6BopDA,sC;QAWoB,Q;QADhB,U7BppDmC,c6Bo pDnB,C7BppDmB,C;Q6BqpDnB,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,M7Bx9DiD,c6Bw9DjD,G7B x9D2D,KAAK,G6Bw9DzD,SAAS,oBAAT,C7Bx9DoE,KAAx,IAAf,C;;Q6B09DrD,OAAO,G;O;KAdX,C;4EAiB A,yB;MAAA,6C;MAAA,oC;MAAA,gC;MblqDA,+B;MakqDA,sC;QAWoB,Q;QADhB,UbjqDqC,eAAW,oBaiqD/ B,CbjqD+B,CAAX,C;QakqDrB,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,Mbt+DmD,eas+DnD,Gbt+D8 D,KAAK,Kas+D5D,SAAS,oBAAT,Cbt+DuE,KAAx,CAAhB,C;;Qaw+DvD,OAAO,G;O;KAdX,C;IAiBA,oC;MA WI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAc,IAAtC,C;K;IAGX,+C;MAGBI,OAAO,sBAAS,IAAT,EAAe,IAAf,E AAsC,IAAtC,EAAwD,SAAXD,C;K;IAcsB,oC;MAAE,OAAA,EAAG,W;K;IAXtC,0C;MAWI,OAAO,6BAAGB,IA AhB,EAAsB,sBAAtB,C;K;IAGX,uD;MAGBI,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EAA8C,IAA9C,EAAgE,SA AhE,C;K;oFAGX,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,Y AAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAAV,CAAJ, C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;QAGf,OAAO,cAAK,KAAL,EAAy,MAA Z,C;O;KAjBX,C;oFAoBA,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;Q AFhB,YAAy,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAGB,cAAhB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAA V,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;QAGf,OAAO,cAAK,KAAM,WA AX,EAAuB,MAAO,WAA9B,C;O;KAjBX,C;IAqCgD,6B;MAAE,OAAA,EAAG,W;K;IAjBrD,2D;MAGB4C,oB;Q AAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACjF,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAqB,cAArB,EAAqC ,eAArC,C;K;IAGX,sE;MAkBgD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MAQhE,Q;MAPrB,oBAAo B,IAApB,EAA0B,IAA1B,C;MACA,eAAe,SAAK,O;MACpB,qBAAqB,YAAW,IAAX,SAAsB,WAAW,IAAX,KA AmB,CAAvB,GAA0B,CAA1B,GAAiC,CAANd,K;MACrB,aAAa,iBAAa,cAAb,C;MACb,YAAy,C;MACZ,OAAG B,CAAT,qBAAiB,QAAxB,C;QACI,UAAU,QAAQ,IAAR,I;QACO,IAAI,MAAM,CAAN,IAAW,MAAM,QAArB, C;UAAiC,IAAI,cAAJ,C;YAAoB,e;;YAAc,K;;UAAa,U;QAAjG,qB;QACA,MAAO,WAAI,UAAU,8BAAY,KAAZ, EAAMB,UAAAnB,CAAV,CAAJ,C;QACP,gBAAS,IAAT,I;;MAEJ,OAAO,M;K;IAoB6C,qC;MAAE,OAAA,EAAG, W;K;IAjB7D,iE;MAGBoD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACzF,OAAO,8BAAiB,IAAjB,E AAuB,IAAvB,EAA6B,cAA7B,EAA6C,uBAA7C,C;K;IAwByB,2F;MAAA,wB;QAC5B,UAAU,QAAQ,YAAR,I;Q ACV,iBAAqB,MAAM,CAAN,IAAW,MAAM,4BAArB,GAA6B,4BAA7B,GAAyC,G;QAD1D,OAEA,kBAAU,0C AAY,KAAZ,EAAMB,UAAAnB,CAAV,C;O;K;IAxBR,gF;MAkBWd,sB;QAAA,SAAY,C;MAAG,8B;QAAA,iBAA 0B,K;MAC7F,oBAAoB,IAApB,EAA0B,MAA1B,C;MACA,cAAc,KAAK,cAAJ,GAAoB,yBAApB,GAAiC,WAA Q,mBAAS,IAAT,GAAgB,CAAhB,IAAR,CAAIC,EAAkE,MAAIE,C;MACd,OAA4B,OAAb,aAAR,OAAQ,CAAa, EAAI,qDAAJ,C;K;IAOhC,kC;MAkBI,ad3hEO,MAAO,Kc2hEU,gBd3hEV,EcghEH,KAW2B,Od3hExB,C;Mc4hE d,WAAW,iBAAa,MAAb,C;MACX,aAAU,CAAV,MAAkB,MAAIB,M;QACI,IAAK,WAdqB,GAcP,iCAAK,CAA L,EAdO,EAcE,YAdrB,KAcqB,YAAM,CAAN,EAdF,CACrB,C;;MAdT,OAGBo,I;K;wEAbX,yB;MAAA,gE;MAA A,oC;MdzHEA,iB;McyHEA,8C;QAQI,ad3hEO,MAAO,Kc2hEK,SAAK,Od3hEV,Ec2hEkB,KAAM,Od3hExB,C;Qc 4hEd,WAAW,eAAa,MAAb,C;QACX,aAAU,CAAV,MAAkB,MAAIB,M;UACI,IAAK,WAAI,UAAU,iCAAK,CA

AL,EAAV,EAAmB,6BAAM,CAAN,EAA nB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;IAgBA,kC;MASW,sB;;QAaP, WAAW,mBAAS,CAAT,I;QACX,IAAI,OAAO,CAAX,C;UAAc,qBAAO,W;UAAP,uB;SACd,aAAa,iBAaA,IAAb, C;QACb,iBAAc,CAAd,UAA sB,IAAtB,U;UACI,MAAO,WAjBkB,GAiBJ,iCAAK,KAAL,EAjBI,EAiBS,iCAAK,Q AAQ,CAAR,IAAL,EAjBT,CAiBIB,C;;QAEX,qBAAO,M;;;MAnBP,yB;K;uFAGJ,yB;MAAA,qD;MAAA,gE;MAA A,oC;MAAA,uC;QAUI,WAAW,mBAAS,CAAT,I;QACX,IAAI,OAAO,CAAX,C;UAAc,OAAO,W;QACrB,aAAa, eAAa,IAAb,C;QACb,iBAAc,CAAd,UAA sB,IAAtB,U;UACI,MAAO,WAAI,UAAU,iCAAK,KAAL,EAAV,EAAu B,iCAAK,QAAQ,CAAR,IAAL,EAAvB,CAAJ,C;;QAEX,OAAO,M;O;KAhBX,C;IAwBoB,8C;MAAA,mB;QAAE, OAAK,WAAL,eAAK,C;O;K;IAL3B,kC;MAIQ,wC;MAAA,S;QAAkB,OCniE0B,qBAAU,C;ODmiE1D,S;QAAiC, OAAO,W;MACxC,oCAA gB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,WAAL,eAAK,C;O;K;IAL3B,k C;MAIQ,wC;MAAA,S;QAAkB,OC3iE0B,qBAAU,C;OD2iE1D,S;QAAiC,OAAO,e;MACxC,oCAA gB,8BAAhB,C ;K;IEpwEkC,yC;MAAA,wB;QAAW,OAAA,aAAK,KAAL,ChCsLV,K;O;K;IiCtLH,wC;MAAA,wB;QAAW,OAA A,aAAK,KAAL,ChC8NV,K;O;K;IiC9NC,yC;MAAA,wB;QAAW,OAAA,aAAK,KAAL,CjByOV,K;O;K;IkBzOC, 0C;MAAA,wB;QAAW,OAAA,aAAK,KAAL,CjCiMV,K;O;K;4FkC5PzC,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6F AGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAA O,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6 FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OA AO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K ;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI, OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C; K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI, OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;uGAuCX,yB;MA8gHI,8D;MA9gHJ,iD;Q ASe,oBAAS,C;QAAT,S;UAAc,gBAqgHT,cAAR,iBAAQ,C;SArgHhB,OAAO,OAA sC,sBAAI,KA AJ,CAATC,GA AsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MA0gHI,8D;MA1gHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBAigH T,cAAR,iBAAQ,C;SAjgHhB,OAAO,OAA sC,sBAAI,KA AJ,CAATC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA, yB;MASgHI,8D;MATgHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBA6/GT,cAAR,iBAAQ,C;SA7/GhB,OAAO,OAA sC,sBAAI,KA AJ,CAATC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MAkgHI,8D;MAlgHJ,iD;QASe,oBAA S,C;QAAT,S;UAAc,gBAy/GT,cAAR,iBAAQ,C;SAz/GhB,OAAO,OAA sC,sBAAI,KA AJ,CAATC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB, C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;uGAYA,yB;MA AA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;uGAYA,yB;MAAA,sD;MAAA,m C;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;iFAYA,gC;MASW,sB;;QA8NS,Q;QAAA,2B;QAAh B,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IA9NH,SA8NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB; ;QAC9C,qBAAO,I;;;MA/NP,yB;K;iFAGJ,gC;MASW,sB;;QA6NS,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAA gB,yB;UAAM,IA7NH,SA6NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9 NP,yB;K;iFAGJ,gC;MASW,sB;;QA4NS,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IA5NH,SA 4NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA7NP,yB;K;iFAGJ,gC;MAS W,sB;;QA2NS,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IA3NH,SA2NO,CAAU,OAAV,CAA J,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5NP,yB;K;yFAGJ,yB;MA4nBA,+C;MAkuFI,0D;MA9 1GJ,uC;QASW,qB;;UA4nBO,Q;UAAA,OAAa,SAytFX,YAAR,iBAAQ,CAztFW,CAAb,W;UAA d,OAAc,cAA d,C; YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IA9nBc,SA8nBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;c AAP,sB;;UAE5B,oBAAO,I;;;QAhoBP,wB;O;KATJ,C;yFAYA,yB;MAgoBA,+C;MA0tFI,0D;MA11GJ,uC;QASW, qB;;UAgoBO,Q;UAAA,OAAa,SAitFX,YAAR,iBAAQ,CAjtFW,CAAb,W;UAA d,OAAc,cAA d,C;YAAc,uB;YAC V,cAAc,sBAAK,KAAL,C;YACd,IAloBc,SAkoBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B, oBAAO,I;;;QApoBP,wB;O;KATJ,C;yFAYA,yB;MAooBA,+C;MAktFI,0D;MAT1GJ,uC;QASW,qB;;UAooBO,Q;U AAA,OAAa,SAysFX,YAAR,iBAAQ,CAzsFW,CAAb,W;UAA d,OAAc,cAA d,C;YAAc,uB;YACV,cAAc,sBAAK, KAAL,C;YACd,IAtoBc,SAsoBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAx oBP,wB;O;KATJ,C;yFAYA,yB;MAwoBA,+C;MA0sFI,0D;MA11GJ,uC;QASW,qB;;UAwoBO,Q;UAAA,OAAa,S AisFX,YAAR,iBAAQ,CAjsFW,CAAb,W;UAA d,OAAc,cAA d,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd

,IA1oBc,SA0oBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA5oBP,wB;O;KAT J,C;mFAYA,yB;MAAA,8C;MnCPHA,6B;MmCoHA,4B;QAQI,OnClHmC,cmCkHpB,MAAR,iBAAQ,CnClHoB,C ;O;KmC0GvC,C;mFAWA,yB;MAAA,8C;MnBhHA,+B;MmBgHA,4B;QAQI,OnB9GsC,emB8GvB,MAAR,iBAA Q,CnB9GuB,C;O;KmBsG1C,C;mFAWA,yB;MAAA,8C;MpCxLA,+B;MoCwLA,4B;QAQI,OpCtLsC,eoCsLvB,M AAR,iBAAQ,CpCtLuB,C;O;KoC8K1C,C;mFAWA,yB;MAAA,8C;MICtLA,iC;MkCsLA,4B;QAQI,OiCpLyC,gBk CoL1B,MAAR,iBAAQ,CiCpL0B,C;O;KkC4K7C,C;mFAWA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QA AhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,g CAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAA hB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB, C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U AAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFA YAY,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU, OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;IAYA,mC;MAMI,OAA W,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sB AAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MA MI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;+FAGpC,gC;MAOoB,Q;MAAA,2B;MAAhB,OAA gB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX, gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB ,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MA AhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I; K;2FAGX,yB;MAkqGI,8D;MAIqGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBA2pGT,cAAR,iBAAQ,C;SA3pGhB, OAAO,OAAcS,sBAAL,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MAGqGI,8D;MAhqGJ,iD; QAOe,oBAAS,C;QAAT,S;UAAc,gBAypGT,cAAR,iBAAQ,C;SAzpGhB,OAAO,OAAcS,sBAAL,KAAJ,CAAtC,G AAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA8pGI,8D;MA9pGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAup GT,cAAR,iBAAQ,C;SAvpGhB,OAAO,OAAcS,sBAAL,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAU A,yB;MA4pGI,8D;MA5pGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAqpGT,cAAR,iBAAQ,C;SArpGhB,OAAO,O AAsC,sBAAL,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;IAUA,wC;MAQe,oBAAS,C;MAAT,S;QAAC,g BAKnGT,gBAAR,iBAAQ,C;OAlnGhB,OAAO,OAAcS,sBAAL,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBA AS,C;MAAT,S;QAAC,gBA+mGT,gBAAR,iBAAQ,C;OAmGhB,OAAO,OAAcS,sBAAL,KAAJ,CAAtC,GAAsD,I; K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAC,gBA4mGT,gBAAR,iBAAQ,C;OAsmGhB,OAAO,OAAcS,sBAAL ,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAC,gBAymGT,gBAAR,iBAAQ,C;OAZmG hB,OAAO,OAAcS,sBAAL,KAAJ,CAAtC,GAAsD,I;K;uFAGjE,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iB AAQ,EAAQ,OnCtdU,KmCsdIB,C;O;KAPnB,C;uFAUA,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ, OpClhBY,KoCkhBpB,C;O;KAPnB,C;uFAUA,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,OI CjhBc,KkCihBtB,C;O;KAPnB,C;iGAUA,yB;MAAA,sC;MnC5ZA,6B;MmC4ZA,0BAOGC,yB;QnCnahC,6B;emC magC,6B;UAAA,qB;YAAE,yBnCzZK,cmCyZK,EnCzZL,CmCyZL,C;W;S;OAAF,C;MAPhC,uC;QAOMB,kBAA R,iB;QAAQ,uB;;UtC40Bf,0D;YACI,IsC70B0B,UnCzZK,cHsuCjB,YAAK,KAAL,CGtuCiB,CmCyZL,CtC60B1B, C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCj1BP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MnBvZA,+B;M mBuZA,0BAOGC,yB;QnB9ZhC,+B;emB8ZgC,6B;UAAA,qB;YAAE,yBnBpZQ,emBoZE,EnBpZF,CmBoZR,C;W; S;OAAF,C;MAPhC,uC;QAOMB,kBAAR,iB;QAAQ,uB;;UtC80Bf,0D;YACI,IsC/0B0B,UnBpZQ,enBmuCpB,YAA K,KAAL,CmBnuCoB,CmBoZR,CtC+0B1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCn1BP,0B;O;KA PJ,C;iGAUA,yB;MAAA,sC;MpC9dA,+B;MoC8dA,0BAOGC,yB;QpCrehC,+B;eoCqegC,6B;UAAA,qB;YAAE,yB pC3dQ,eoC2dE,EpC3dF,CoC2dR,C;W;S;OAAF,C;MAPhC,uC;QAOMB,kBAAR,iB;QAAQ,uB;;UtCgyBf,0D;YA CI,IsCjyB0B,UpC3dQ,eF4vCpB,YAAK,KAAL,CE5vCoB,CoC2dR,CtCiyB1B,C;cACI,sBAAO,K;cAAP,wB;;UA GR,sBAAO,E;;;QsCryBP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MIC3dA,iC;MkC2dA,0BAOGC,yB;QIClehC,iC;ek CkegC,6B;UAAA,qB;YAAE,yBICxdW,gBkCwdD,ElCxdC,CkCwdX,C;W;S;OAAF,C;MAPhC,uC;QAOMB,kBA

AR,iB;QAAQ,uB;;UtCkyBf,0D;YACI,IsCnyB0B,UICxdW,gBJ2vCvB,YAAK,KAAL,CI3vCuB,CkCwdX,CtCmyB  
1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCvyBP,0B;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCm5BA,  
0D;MAAA,+C;MGv1CA,6B;MmCocA,yBAO+B,yB;QnC3c/B,6B;emC2c+B,6B;UAAA,qB;YAAE,yBnCjcM,cmC  
icI,EnCjcJ,CmCicN,C;W;S;OAAF,C;MAP/B,uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtCg5BD,Q;UAAA,OAAQ,SA  
AR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IsCj5ByB,UnCjcM,cHk1CjB,YAAK,KAAL,CGI  
1CiB,CmCicN,CtCi5BzB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QsCr5BP,yB;O;KAPJ,C;+FAUA,yB;  
MAAA,sC;MtCq5BA,0D;MAAA,+C;MmBp1CA,+B;MmB+bA,yBAO+B,yB;QnBtc/B,+B;emBsc+B,6B;UAAA,q  
B;YAAE,yBnB5bS,emB4bC,EnB5bD,CmB4bT,C;W;S;OAAF,C;MAP/B,uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtC  
k5BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IsCn5ByB,UnB5bS,en  
B+0CpB,YAAK,KAAL,CmB/0CoB,CmB4bT,CtCm5BzB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QsCv  
5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCu2BA,0D;MAAA,+C;ME72CA,+B;MoCsgBA,yBAO+B,yB;QpC7  
gB/B,+B;eoC6gB+B,6B;UAAA,qB;YAAE,yBpCngBS,eoCmgBC,EpCngBD,CoCmgBT,C;W;S;OAAF,C;MAP/B,  
uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtCo2BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;  
YAAc,uB;YACV,IsCr2ByB,UpCngBS,eFw2CpB,YAAK,KAAL,CEx2CoB,CoCmgBT,CtCq2BzB,C;cACI,qBAA  
O,K;cAAP,uB;;UAGR,qBAAO,E;;;QsCz2BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCy2BA,0D;MAAA,+C;MI  
52CA,iC;MkCmgBA,yBAO+B,yB;QIC1gB/B,iC;ekC0gB+B,6B;UAAA,qB;YAAE,yBIChgBY,gBkCggBF,ElChgB  
E,CkCggBZ,C;W;S;OAAF,C;MAP/B,uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtCs2BD,Q;UAAA,OAAQ,SAAR,wB  
AAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IsCv2ByB,UIChgBY,gBJu2CvB,YAAK,KAAL,CiV2Cu  
B,CkCggBZ,CtCu2BzB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QsC32BP,yB;O;KAPJ,C;iFAUA,yB;M  
AAA,4C;MnC5eA,6B;MmC4eA,4B;QAWI,OnC7emC,cmC6epB,KAAR,iBAAQ,CnC7eoB,C;O;KmCkevC,C;iFAc  
A,yB;MAAA,4C;MnB3eA,+B;MmB2eA,4B;QAWI,OnB5esC,emB4evB,KAAR,iBAAQ,CnB5euB,C;O;KmBie1C,  
C;iFAcA,yB;MAAA,4C;MpCtjBA,+B;MoCsjBA,4B;QAWI,OpCvjBsC,eoCujBvB,KAAR,iBAAQ,CpCvjBuB,C;O  
;KoC4iB1C,C;iFAcA,yB;MAAA,4C;MICvjBA,iC;MkCujBA,4B;QAWI,OICxjByC,gBkCwjB1B,KAAR,iBAAQ,C  
ICxjB0B,C;O;KkC6iB7C,C;iFAcA,yB;MAAA,+C;MAAA,iE;MA83FI,0D;MA93FJ,uC;QAWkB,Q;QAAA,OAAa,  
SAm3FX,YAn3FF,SAm3FN,QAAQ,CAn3FW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc,sBAAK,  
KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;Kaf  
V,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MAo3FI,0D;MAP3FJ,uC;QAWkB,Q;QAAA,OAAa,SAY2FX,YAZ2FF,SA  
y2FN,QAAQ,CAz2FW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,U  
AAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KafV,C;iFAkBA,yB;MAAA  
,+C;MAAA,iE;MA02FI,0D;MA12FJ,uC;QAWkB,Q;QAAA,OAAa,SA+1FX,YA+1FF,SA+1FN,QAAQ,CA+1FW,C  
AAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;Y  
AAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KafV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MAG2FI,  
0D;MAh2FJ,uC;QAWkB,Q;QAAA,OAAa,SAq1FX,YAr1FF,SAq1FN,QAAQ,CAr1FW,CAAb,W;QAAd,OAAc,c  
AAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEn  
C,MAAM,gCAAuB,mDAAvB,C;O;KafV,C;+FAkBA,yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EA  
AY,OnC9sBM,KmC8sBIB,C;O;KAPnB,C;+FAUA,yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,  
OpC1wBQ,KoC0wBpB,C;O;KAPnB,C;+FAUA,yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,O  
ICzwBU,KkCywBtB,C;O;KAPnB,C;IAUA,kC;MAQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAA  
P,IAAL,C;K;IAGpC,kC;MAQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;IAGpC,k  
C;MAQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;IAGpC,kC;MAQI,OAAW,mB  
AAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;6FAGpC,yB;MAAA,+C;MAkuFI,0D;MALuFJ,uC;Q  
ASKB,Q;QAAA,OAAa,SAYtFX,YAZtFF,SAYtFN,QAAQ,CAZtFW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UA  
CV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAbX,  
C;6FAGBA,yB;MAAA,+C;MA0tFI,0D;MA1tFJ,uC;QASKB,Q;QAAA,OAAa,SAitFX,YAjtFF,SAitFN,QAAQ,CAjt  
FW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ  
,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAbX,C;6FAGBA,yB;MAAA,+C;MAktFI,0D;MAltFJ,uC;QASKB,Q;Q  
AAA,OAAa,SAYSFX,YAZsFF,SAYSFN,QAAQ,CAZsFW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc

,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAbX,C;6FAgB  
A,yB;MAAA,+C;MA0sFI,0D;MA1sFJ,uC;QASkB,Q;QAAA,OAAa,SAisFX,YAjsFF,SAisFN,QAAQ,CAjsFW,CA  
Ab,W;QAAAd,OAAc,cAAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YA  
AwB,OAAO,O;;QAEEnC,OAAO,I;O;KAbX,C;qFAgBA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBA  
AO,cAAP,C;O;KATX,C;qFAyA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,  
C;qFAyA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;qFAyA,yB;MAAA,  
mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYa,sC;MAQI,IAAI,mBAAJ,C;QACI,M  
AAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;MAQI,IAAI,mB  
AAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;  
MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,  
C;K;IAGX,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ  
,cAAR,CAAX,C;K;iGAGX,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iG  
AWA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC  
;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC;MAAA,4D;MAAA,4  
B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;IAWA,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,s  
BAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAA  
I,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MA  
AO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,i  
BAAQ,cAAR,CAAX,C;K;qFAGX,yB;MAAA,gD;MnCh8BA,6B;MmCg8BA,4B;QAOI,OnC77BmC,cmC67BpB,  
OAAAR,iBAAQ,CnC77BoB,C;O;KmCs7BvC,C;qFAUA,yB;MAAA,gD;MnB37BA,+B;MmB27BA,4B;QAOI,OnB  
x7BsC,emBw7BvB,OAAAR,iBAAQ,CnBx7BuB,C;O;KmBi7B1C,C;qFAUA,yB;MAAA,gD;MpClgCA,+B;MoCkg  
CA,4B;QAOI,OpC//BsC,eoC+/BvB,OAAAR,iBAAQ,CpC//BuB,C;O;KoCw/B1C,C;qFAUA,yB;MAAA,gD;MIC//B  
A,iC;MkC+/BA,4B;QAOI,OIC5/ByC,gBkC4/B1B,OAAAR,iBAAQ,CIC5/B0B,C;O;KkCq/B7C,C;qFAUA,yB;MAA  
A,kF;MAAA,iE;MAAA,wB;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACI,2  
B;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,MA  
AM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAAY,MAAM,gCA  
AuB,mDAAvB,C;QAEIB,OAAO,0D;O;KAIBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MA  
AA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACI,2B;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;U  
ACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;Y  
ACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAAY,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2D;O;KAIB  
X,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QA  
CrB,YAAY,K;QACI,2B;QAaHb,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI  
,KAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;  
UAAAY,MAAM,gCAAuB,mDAAvB,C;QAEIB,OAAO,2D;O;KAIBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA  
,4B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAsB,I;QACtB,YAAY,K;QACI,2B;QAaHb,OAAgB,cAAh  
B,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAJ,C;cAAW,MAAM,8BAAYB,gDAAzB,C;  
YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAAY,MAAM,gCAAuB,mDAAvB,C;QAEIB,  
OAAO,4D;O;KAIBX,C;IAqBA,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IA  
GvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mB  
AAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;iGAGvC,gC;MASoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACI,2B;MAaHb,OAA  
gB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAJ,C;YAAW,OAAO,I;UACIB,SA  
AS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MASoB  
,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACI,2B;MAaHb,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,O  
AAV,CAAJ,C;UACI,IAAI,KAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KA  
AL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MASoB,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACI,2  
B;MAaHb,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAJ,C;YAAW,OA  
AO,I;UACIB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iG

AGX,gC;MASoB,Q;MAFhB,aAAsB,I;MACtB,YAAy,K;MACl,2B;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAGB,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAGB,I;UACIB,SAAS,O;UACT,QAAQ,I;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAGB,I;MACnB,OAAGB,M;K;IAGX,+B;MxBRhDI,IAAI,EwB+hDI,KAAK,CxB/hDT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwB8hDV,OAAGB,uBAAoB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAApB,C;K;IAGX,+B;MxBniDI,IAAI,EwB6iDI,KAAK,CxB7iDT,CAAJ,C;QACI,cwB4iDc,sD;QxB3iDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwB4iDV,OAAGB,uBAAoB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAApB,C;K;IAGX,+B;MxBjjDI,IAAI,EwB2jDI,KAAK,CxB3jDT,CAAJ,C;QACI,cwB0jDc,sD;QxBzjDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwB0jDV,OAAGB,uBAAoB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAApB,C;K;IAGX,+B;MxBjDI,IAAI,EwBykDI,KAAK,CxBzkDT,CAAJ,C;QACI,cwBwkDc,sD;QxBvkDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwBwkDV,OAAGB,uBAAoB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAApB,C;K;IAGX,mC;MxB7kDI,IAAI,EwBulDI,KAAK,CxBvlDT,CAAJ,C;QACI,cwBslDc,sD;QxBrlDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwBslDV,OAAGB,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAAhB,C;K;IAGX,mC;MxB3lDI,IAAI,EwBqmDI,KAAK,CxBrmDT,CAAJ,C;QACI,cwBomDc,sD;QxBnmDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwBomDV,OAAGB,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAAhB,C;K;IAGX,mC;MxBzmDI,IAAI,EwBmnDI,KAAK,CxBnnDT,CAAJ,C;QACI,cwBknDc,sD;QxBjnDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwBknDV,OAAGB,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAAhB,C;K;IAGX,mC;MxBvnDI,IAAI,EwBioDI,KAAK,CxBjoDT,CAAJ,C;QACI,cwBgoDc,sD;QxB/nDd,MAAM,gCAAYB,OAAGB,WAAjC,C;OwBgoDV,OAAGB,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAGB,CAAd,CAAhB,C;K;mGAGX,yB;MAAA,4C;MAAA,qD;MAkqEI,8D;MAIqEJ,uC;QASI,iBAypEgB,cAAR,iBAAQ,CAzpEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAGB,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAGB,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAypEI,8D;MAzpEJ,uC;QASI,iBAgpEgB,cAAR,iBAAQ,CAhpEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAGB,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAGB,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAgpEI,8D;MAhpEJ,uC;QASI,iBAuoEgB,cAAR,iBAAQ,CAvoEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAGB,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAGB,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAuoEI,8D;MAvoEJ,uC;QASI,iBA8nEgB,cAAR,iBAAQ,CA9nEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAGB,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAGB,W;O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAGB,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEEnB,OAAGB,I;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAGB,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEEnB,OAAGB,I;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAGB,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEEnB,OAAGB,I;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAgRA,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAhRa,SAgRT,CAAU,OAAGB,CAAJ,C;YAAwB,WAAy,WAAI,OAAGB,C;;QAhR1D,OAIRO,W;O;KA1RX,C;qFAYA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAIrA,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAjRc,SAiRV,CAAU,OAAGB,CAAJ,C;YAAwB,WAAy,WAAI,OAAGB,C;;QAJR1D,OAKRO,W;O;KA3RX,C;qFAYA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAKrA,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAIRc,SAkRV,CAAU,OAAGB,CAAJ,C;YAAwB,WAAy,WAAI,OAAGB,C;;QAIr1D,OAmRO,W;O;KA5RX,C;qFAYA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAmRA,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAAnRe,SAmRX,CAAU,OAAGB,CAAJ,C;YAAwB,WAAy,WAAI,OAAGB,C;;QAnR1D,OAOro,W;O;KA7RX,C;kGAYA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAGB,gB;QAm5HV,gB;QADb,YAAy,C;QACC,2B;QAAb,OAAGB,cAAb,C;UAAa,sB;UA11HT,IAzDsC,SAyDIC,EA01HkB,CA11HIB,EA01HkB,sBA11HIB,WA01H2B,IA11H

3B,CAAJ,C;YAA2C,sBA01HZ,IA11HY,C;;QAzD/C,OA2DO,W;O;KAtEX,C;mGAcA,yB;MAAA,+D;MAAA,uC;  
 QAWW,kBAAGB,gB;Qak5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IA5Du  
 C,SA4DnC,EAs1HkB,cAt1HIB,EAs1HkB,sBA1HIB,WAs1H2B,IA1H3B,CAAJ,C;YAA2C,sBA1HZ,IA1HY,C;  
 ;QA5D/C,OA8DO,W;O;KAZEX,C;mGAcA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAGB,gB;QAI5HV,gB;QADb,  
 YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAI1HT,IA/DuC,SA+DnC,EAK1HkB,cAl1HIB,EAK1HkB,s  
 BA11HIB,Wak1H2B,IA1H3B,CAAJ,C;YAA2C,sBA1HZ,IA1HY,C;;QA/D/C,OAIeO,W;O;KA5EX,C;mGAcA,  
 yB;MAAA,+D;MAAA,uC;QAWW,kBAAGB,gB;QA5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;  
 UAAa,sB;UA90HT,IAIEwC,SAkEpC,EA80HkB,cA90HIB,EA80HkB,sBA90HIB,WA80H2B,IA90H3B,CAAJ,C;Y  
 AA2C,sBA80HZ,IA90HY,C;;QAIE/C,OAOEo,W;O;KA/EX,C;uGAcA,6C;MAS2HiB,gB;MADb,YAAY,C;MACC,  
 2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA11HT,IAAI,WA01HkB,cA11HIB,EA01HkB,sBA11HIB,WA01H2B,IA11  
 H3B,CAAJ,C;UAA2C,sBA01HZ,IA11HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MAk2HiB,gB;MADb,YAAY,C;M  
 ACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAt1HT,IAAI,WAs1HkB,cAt1HIB,EAs1HkB,sBA1HIB,WAs1H2B,IA  
 t1H3B,CAAJ,C;UAA2C,sBA1HZ,IA1HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MA81HiB,gB;MADb,YAAY,C;  
 MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA11HT,IAAI,Wak1HkB,cAl1HIB,Eak1HkB,sBA11HIB,Wak1H2B  
 ,IA1H3B,CAAJ,C;UAA2C,sBA1HZ,IA1HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MA01HiB,gB;MADb,YAAY,  
 C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA90HT,IAAI,WA80HkB,cA90HIB,EA80HkB,sBA90HIB,WA80  
 H2B,IA90H3B,CAAJ,C;UAA2C,sBA80HZ,IA90HY,C;;MAE/C,OAAO,W;K;2FAGX,yB;MAAA,+D;MAAA,uC;  
 QASW,kBAAY,gB;QAAGH,Q;QAAA,2B;QAaHb,OAAgB,cAaHb,C;UAAgB,yB;UAAM,IAAI,CAhDY,SAGDX,  
 CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAL,OAAJ,C;;QAHD3D,OAI DO,W;O;KA1DX,C;2FAYA,yB;MAAA,  
 +D;MAAA,uC;QASW,kBAAY,gB;QAI DH,Q;QAAA,2B;QAaHb,OAAgB,cAaHb,C;UAAgB,yB;UAAM,IAAI,C  
 AjDa,SAiDZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAL,OAAJ,C;;QAjD3D,OAKDO,W;O;KA3DX,C;2FAY  
 A,yB;MAAA,+D;MAAA,uC;QASW,kBAAY,gB;QAKDH,Q;QAAA,2B;QAaHb,OAAgB,cAaHb,C;UAAgB,yB;U  
 AAM,IAAI,CAIDa,SAkDZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAL,OAAJ,C;;QAID3D,OAmDO,W;O;K  
 A5DX,C;2FAYA,yB;MAAA,+D;MAAA,uC;QASW,kBAAY,gB;QAmDH,Q;QAAA,2B;QAaHb,OAAgB,cAaHb,  
 C;UAAgB,yB;UAAM,IAAI,CANdC,SAmDb,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAL,OAAJ,C;;QANd3D,  
 OAoDO,W;O;KA7DX,C;+FAYA,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,yB;QAAM,IAAI  
 ,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAL,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;  
 MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAA  
 Y,WAAL,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,  
 yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAL,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX  
 ,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;  
 UAAyB,WAAY,WAAL,OAAJ,C;;MAC3D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAA  
 hB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;  
 yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;  
 UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAA  
 hB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;  
 yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAaHb,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;  
 UAAwB,WAAY,WAAL,OAAJ,C;;MAC1D,OAAO,W;K;IAGX,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCvjE  
 e,W;OgCwjEtC,OAA4D,SA0iDrD,cAAkB,cAAR,iBAAQ,EA1iDN,OAAQ,MA0iDF,EA1iDS,OAAQ,aAAR,GAA  
 uB,CAAvB,IA0iDT,CAAIB,CA1iDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCjkEe,W;OgCkk  
 EtC,OAA4D,SAgjDrD,eAAmB,cAAR,iBAAQ,EAhjDP,OAAQ,MAgjDD,EAhjDQ,OAAQ,aAAR,GAAuB,CAAvB  
 ,IAGjDR,CAAnB,CAhjDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhC3kEe,W;OgC4kEtC,OAA  
 4D,UAsjDrD,eAAmB,cAAR,iBAAQ,EAjtDP,OAAQ,MAsjDD,EAjtDQ,OAAQ,aAAR,GAAuB,CAAvB,IASjDR,C  
 AAnB,CAjtDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCrIEe,W;OgCslEtC,OAA4D,UA4jDrD  
 ,gBAAoB,cAAR,iBAAQ,EA5jDR,OAAQ,MA4jDA,EA5jDO,OAAQ,aAAR,GAAuB,CAAvB,IA4jDP,CAApB,CA  
 5jDqD,C;K;IAGhE,sC;MASKB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAwB,EAxB,C;MACnB,IAAI,SAAQ,CA  
 AZ,C;QAAe,OAAO,W;MACtB,WAaw,iBAAGB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,I  
 AAK,WAAL,sBAAL,KAAL,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MASKB,Q;MAHd,WAAmB,wBAAR,OAAQ,E

AAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB  
;MAAd,OAAc,cAAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KA AJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MA  
SkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;M  
ACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAc,cAAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KA AJ  
,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAskB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,  
IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAkB,IAAlB,C;MACG,yB;MAAd,OAAc,cAAAd,C;Q  
AAc,uB;QACV,IAAK,WAAI,sBAAI,KA AJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,2C;MAMI,OAAO,cAAkB,aAAR,  
iBAAQ,EAAW,OAAX,CAAlB,C;K;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K  
;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,  
aAAR,iBAAQ,EAAW,OAAX,CAApB,C;K;IAGX,2C;MAMI,OAAO,cAAkB,cAAR,iBAAQ,EAAW,OAAX,CAAl  
B,C;K;IAGX,2C;MAMI,OAAO,eAAmB,cAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,eA  
AmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,cAAR,iBAAQ,EAAW,OAAX  
X,CAApB,C;K;IAGX,+B;MAGBiB,Q;MxB7xEb,IAAI,EwBuxEI,KA AK,CxBvxET,CAAJ,C;QACI,cwBsxEc,sD;Q  
xBxEd,MAAM,gCAAYB,OAAQ,WAAjC,C;OwBsxEV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,  
KA AK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,  
C;MACnB,YAAY,C;MACZ,WAAW,iBAAGB,CAAhB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAA  
K,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAGBiB,Q;MxB7yEb,IA  
AI,EwB+yEI,KA AK,CxB/yET,CAAJ,C;QACI,cwB8yEc,sD;QxB7yEd,MAAM,gCAAYB,OAAQ,WAAjC,C;OwB8  
yEV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KA AK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,M  
AAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAj  
B,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UA  
CI,K;;MAER,OAAO,I;K;IAGX,+B;MAGBiB,Q;MxB70Eb,IAAI,EwBu0EI,KA AK,CxBv0ET,CAAJ,C;QACI,cwBs  
0Ec,sD;QxB70Ed,MAAM,gCAAYB,OAAQ,WAAjC,C;OwBs0EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MAC  
nB,IAAI,KA AK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAA  
L,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;Q  
ACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAGBiB,Q;M  
xB72Eb,IAAI,EwB+1EI,KA AK,CxB/1ET,CAAJ,C;QACI,cwB81Ec,sD;QxB71Ed,MAAM,gCAAYB,OAAQ,WAAj  
C,C;OwB81EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KA AK,cAAT,C;QAAe,OAAO,mB;MAC  
tB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBA  
AkB,CAAlB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,  
CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,mC;MxB72EI,IAAI,EwBu3EI,KA AK,CxBv3ET,CAAJ,C;QACI,cwB  
s3Ec,sD;QxB73Ed,MAAM,gCAAYB,OAAQ,WAAjC,C;OwBs3EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MAC  
nB,WAAW,c;MACX,IAAI,KA AK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OA  
AO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAGB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IA  
Ad,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxB14EI,IAAI,  
EwB44EI,KA AK,CxB54ET,CAAJ,C;QACI,cwB24Ec,sD;QxB14Ed,MAAM,gCAAYB,OAAQ,WAAjC,C;OwB24E  
V,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KA AK,IAAT,C;QAAe,OAAO,mB;  
MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iB  
AAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAA  
J,C;MACT,OAAO,I;K;IAGX,mC;MxBv5EI,IAAI,EwBi6EI,KA AK,CxBj6ET,CAAJ,C;QACI,cwBg6Ec,sD;QxB/5  
Ed,MAAM,gCAAYB,OAAQ,WAAjC,C;OwBg6EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;  
MACX,IAAI,KA AK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,O  
AAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IA  
A7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxB56EI,IAAI,EwBs7EI,KA  
AK,CxBt7ET,CAAJ,C;QACI,cwBq7Ec,sD;QxBp7Ed,MAAM,gCAAYB,OAAQ,WAAjC,C;OwBq7EV,IAAI,MAA  
K,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KA AK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,  
MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAkB,CAAl  
B,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,



OAAO,I;K;mGAGX,yB;MAAA,4C;MAAA,gD;MA2CI,8D;MA2CJ,uC;QASI,iBA61CgB,cAAR,iBAAQ,CA71C  
hB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ  
,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;mGaiBA,yB;MAAA,4C;MAAA,gD;MA61CI,8D;MA71CJ,uC;QA  
SI,iBAo1CgB,cAAR,iBAAQ,CAP1ChB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,C  
AAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;mGaiBA,yB;MAAA,4C;MA  
AA,gD;MAo1CI,8D;MAP1CJ,uC;QASI,iBA20CgB,cAAR,iBAAQ,CA30ChB,WAA+B,CAA/B,U;UACI,IAAI,CA  
AC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;K  
AdX,C;mGaiBA,yB;MAAA,4C;MAAA,gD;MA20CI,8D;MA30CJ,uC;QASI,iBAk0CgB,cAAR,iBAAQ,CA10ChB,  
WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,C  
AAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QA  
CE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI  
,IAAJ,C;;QAET,OAAO,I;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B  
;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ  
,C;;QAET,OAAO,I;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAA  
b,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QA  
ET,OAAO,I;O;KafX,C;2FakBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAAb,OAA  
a,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OA  
AO,I;O;KafX,C;uFakBA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD  
;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;  
KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,  
gD;QAaY,QAAR,iBAAQ,EAAQ,SAAR,EAAMB,OAANB,C;O;KAbZ,C;uFAGBA,yB;MAAA,kD;MAAA,gD;QAa  
Y,QAAR,iBAAQ,EAAQ,SAAR,EAAMB,OAANB,C;O;KAbZ,C;uFAGBA,yB;MAAA,kD;MAAA,gD;QAaY,QA  
AR,iBAAQ,EAAQ,SAAR,EAAMB,OAANB,C;O;KAbZ,C;uFAGBA,yB;MAAA,kD;MAAA,gD;QAaY,QAAR,iBAA  
Q,EAAQ,SAAR,EAAMB,OAANB,C;O;KAbZ,C;IAgBA,gC;MAMI,IAAI,mBAAJ,C;QAaE,OAAO,W;MACTB,W  
AAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAaE,OAAO,W;MACTB  
,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAaE,OAAO,W;MA  
CTB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAaE,OAAO,W;  
MACTB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;kGAGX,yB;MAAA,8D;MAAA,uC;MAAA,4B;Q  
AOI,OAAO,mBAAkB,cAAR,iBAAQ,CAAIb,C;O;KAPX,C;kGAUA,yB;MAAA,8D;MAAA,yC;MAAA,4B;QAOI  
,OAAO,oBAAmB,cAAR,iBAAQ,CAAnB,C;O;KAPX,C;mGAUA,yB;MAAA,8D;MAAA,2C;MAAA,4B;QAOI,OA  
AO,qBAAoB,cAAR,iBAAQ,CAApB,C;O;KAPX,C;IAUA,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,+B;MAMI,sBA  
AQ,4BAAR,C;K;IAGJ,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,uC;MAQI,a  
A8+BgB,gBAAR,iBAAQ,CA9+BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QA  
Cf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EA  
AU,IAAV,C;;K;IAIR,uC;MAQI,aAs+BgB,gBAAR,iBAAQ,CAt+BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,i  
BAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAA  
V,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aA89BgB,gBAAR,iBAAQ,CA99BhB,OAA2B,CA  
A3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CA  
AL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aAs9BgB,gBAAR  
,iBAAQ,CAt9BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAA  
K,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IA  
IR,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QApSI,UAAR,iBAAQ,C;Q;IAySZ,sC;MAMI,IAAI,iBAAO,CAAX  
,C;QACI,iB;QAtSI,UAAR,iBAAQ,C;Q;IA2SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QAxSI,UAAR,iBAAQ  
,C;Q;IA6SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QA1SI,UAAR,iBAAQ,C;Q;IA+SZ,6B;MAMoB,kBA+nB  
T,cAAU,iBvB58EO,QuB48EjB,C;MA/nBiB,mB;MAAxB,OAAiC,SrBv3F1B,WqBu3F0B,C;K;IAGrC,8B;MAMo  
B,kBAkoBT,eAAmB,UAAR,iBAAQ,CAAnB,C;MAlBiB,mB;MAAxB,OAAiC,SrBh4F1B,WqBg4F0B,C;K;IAGr  
C,8B;MAMoB,kBAqoBT,eAAW,iBvBx/EM,QuBw/EjB,C;MAroBiB,mB;MAAxB,OAAiC,UrBz4F1B,WqBy4F0B

,C;K;IAGrC,8B;MAMoB,kBAwoBT,gBAAY,iBvB1/EK,QuB0/EjB,C;MAxoBiB,mB;MAAxB,OAAiC,UrB15F1B,WqBk5F0B,C;K;IAGrC,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA0lBd,cA11BA,SA0IBU,QvB58EO,QuB48EjB,C;MA11BsB,mB;MAA7B,OrB55FO,W;K;IqB+5FX,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA4lBd,eAAmB,UA5lBnB,SA4lBW,QAAQ,CAAnB,C;MA5lBsB,mB;MAA7B,OrBt6FO,W;K;IqBy6FX,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA8lBd,eA9lBA,SA8lBW,QvBx/EM,QuBw/EjB,C;MA9lBsB,mB;MAA7B,OrBh7FO,W;K;IqBm7FX,mC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAgmbd,gBAhmBA,SAgmbY,QvB1/EK,QuB0/EjB,C;MAhmBsB,mB;MAA7B,OrB17FO,W;K;IqB67FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAkjBd,cAljBA,SAkjBU,QvB58EO,QuB48EjB,C;MAljBsB,8B;MAA7B,OrBp8FO,W;K;IqBu8FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAojBd,eAAmB,UApjBnB,SAojBW,QAAQ,CAAnB,C;MApjBsB,8B;MAA7B,OrB98FO,W;K;IqBi9FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAsjBd,eAtjBA,SAsjBW,QvBx/EM,QuBw/EjB,C;MAtjBsB,8B;MAA7B,OrBx9FO,W;K;IqB29FX,6C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAwjBd,gBAxjBA,SAwjBY,QvB1/EK,QuB0/EjB,C;MAXjBsB,8B;MAA7B,OrB1+FO,W;K;IqBq+FX,uC;MAQoB,kBAygBT,cAAU,iBvB58EO,QuB48EjB,C;MAzgBiB,mB;MAAxB,OAAiC,YrB7+F1B,WqB6+F0B,C;K;IAGrC,wC;MAQoB,kBA0gBT,eAAmB,UAAAR,iBAAQ,CAAnB,C;MA1gBiB,mB;MAAxB,OAAiC,YrBx/F1B,WqBw/F0B,C;K;IAGrC,wC;MAQoB,kBA2gBT,eAAW,iBvBx/EM,QuBw/EjB,C;MA3gBiB,mB;MAAxB,OAAiC,YrBngG1B,WqBmgG0B,C;K;IAGrC,wC;MAQoB,kBA4gBT,gBAAY,iBvB1/EK,QuB0/EjB,C;MA5gBiB,mB;MAAxB,OAAiC,YrB9gG1B,WqB8gG0B,C;K;4FAGrC,qB;MAQI,OAAO,iB;K;0FAGX,qB;MAQI,OAAO,iB;K;4FA+BX,qB;MAQI,OAAO,iB;K;8FAGX,qB;MAQI,OAAO,iB;K;8FAGX,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;4FAWA,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,mBAAU,SAAV,C;O;KARX,C;8FAWA,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;gGAWA,yB;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SAAZ,C;O;KARX,C;IAWA,2C;MASI,OAAAY,gBAAL,SAAK,EAAC,KAAd,C;K;IAGhB,2C;MASI,OAAAY,gBAAL,SAAK,EAAC,KAAd,C;K;IAGhB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAC,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAC,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAC,oCAAd,C;K;IAGzB,sC;MAQI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAUI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQW,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAYB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAYB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAYB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;sFAGjD,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB6D,iC;UAAA,oBAAYB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF1H,UuBwhFA,iBvBxhFA,EuBwhFiB,WAAAY,QvBxhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhFrE,C;QuByhFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB+D,iC;UAAA,oBAAYB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF5H,UuBwhFA,iBvBxhFA,EuBwhFiB,WAAAY,QvBxhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhFrE,C;QuByhFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB+D,iC;UAAA,oBAAYB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvnF9H,UuBwhFA,iBvBxnFA,EuBwhFiB,WAAAY,QvBxnF7B,EuBwhFsC,iBvBxnFtC,EuBwhFyD,UvBxnFzD,EuBwhFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxnFA,8C;MuBwnFA,kF;QAmBiE,iC;UAAA,oBAAYB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvnF9H,UuBwnFA,iBvBxnFA,EuBwnFiB,WAAAY,QvBxnF7B,EuBwnFsC,iBvBxnFtC,EuBwnFyD,UvBxnFzD,EuBwnFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;kFAwBA,yB;MAAA,uC;MAAA,4B;QASI,OAAO,mBAAU,iBvB58EO,QuB48EjB,C;O;KATX,C;oFAYA,yB;MAAA,gD;MAAA,yC;MAAA,4B;QASI,OAAO,oBAAW,iBvBx/EM,QuBw/EjB,C;O;KATX,C;oFAYA,yB;MAAA,2C;MAAA,4B;QASI,OAAO,qBAAY,iBvB1/EK,QuB0/EjB,C;O;KATX,C;

oFAYA,yB;MAAA,gD;MAAA,uC;MAAA,qC;QAWI,OAAO,mBAaKB,OAAR,iBAAQ,EAAO,OAAP,CAAIb,C;  
O;KAXX,C;oFAcA,yB;MAAA,gD;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,iBAAQ,EAAO,OAAP  
,CAAnB,C;O;KAXX,C;oFAcA,yB;MAAA,+C;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,iBAAQ,E  
AAO,OAAP,CAAnB,C;O;KAXX,C;oFAcA,yB;MAAA,gD;MAAA,2C;MAAA,qC;QAWI,OAAO,qBAAoB,OAA  
R,iBAAQ,EAAO,OAAP,CAApB,C;O;KAXX,C;4FAcA,yB;MAAA,0D;MAAA,uC;MAAA,gD;QAaI,OAAO,mBA  
AkB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAIb,C;O;KAbX,C;8FAgBA,yB;MAAA,0D;MAAA,yC;M  
AAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAnB,C;O;KAbX,C;8FAgBA,  
yB;MAAA,0D;MAAA,yC;MAAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CA  
AnB,C;O;KAbX,C;6FAgBA,yB;MAAA,0D;MAAA,2C;MAAA,gD;QAaI,OAAO,qBAAoB,YAAR,iBAAQ,EAAY,  
SAAZ,EAAuB,OAAvB,CAApB,C;O;KAbX,C;IAGBA,sD;MAWYc,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAA  
e,c;MACHE,OAAR,iBAAQ,EAaK,OnCv8GoB,KmCu8GzB,EAAsB,SAAtB,EAaIc,OAAjC,C;K;IAGZ,wD;MA  
W2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACIE,OAAR,iBAAQ,EAaK,OnB38GsB,KmB28G3B,E  
AAuB,SAAvB,EAaKc,OAAIc,C;K;IAGZ,wD;MAW2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACI  
E,OAAR,iBAAQ,EAaK,OpC7gHsB,KoC6gH3B,EAAuB,SAAvB,EAaKc,OAAIc,C;K;IAGZ,wD;MAW6C,yB;Q  
AAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACpE,OAAR,iBAAQ,EAaK,OIcjhHwB,KkCihH7B,EAAwB,SA  
xB,EAAMc,OAAnc,C;K;8FASR,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;8FAQ  
A,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;MAAA,4B;Q  
AAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;  
O;KAAhB,C;kGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;kGAQA,yB;MAA  
A,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAA  
Q,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,  
C;iFAEJ,yB;MAAA,uC;MvBvoEA,iD;MuBuoEA,qC;QAOqB,4B;QAAA,gBAAU,OnC9jHM,K;QmC8jHjC,OAA  
O,mBvBzoEA,2BAxIK,gBAAW,SAAX,EAwIL,CuByoEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvBzoEA,iD;M  
uByoEA,qC;QAOI,OAAO,oBvB3oEA,qBuB2oEW,iBvB3oEX,EAxIK,mBuBmxEGb,OnB7jHO,KJ0yCvB,CAwIL,  
CuB2oEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvB3qEA,iD;MuB2qEA,qC;QAOsB,4B;QAAA,gBAAU,OpC1n  
HO,K;QoC0nHnC,OAAO,oBvB7qEA,2BAxIK,eAAY,SAAZ,EAwIL,CuB6qEA,C;O;KAPX,C;iFAUA,yB;MAAA,  
2C;MvB7qEA,iD;MuB6qEA,qC;QAOuB,4B;QAAA,gBAAU,OIcZnHQ,K;QkCynHrC,OAAO,qBvB/qEA,2BAxIK  
,gBAAa,SAAb,EAwIL,CuB+qEA,C;O;KAPX,C;IAUA,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,U  
AAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAGb,cAAhB,C;QAAGb,yB;QAAU,  
OAAO,cAAP,EAAO,sBAAP,YAAkB,OnCvmHX,K;;MmCwmHjC,OAAO,cAAU,MAAV,C;K;IAGX,sC;MAQoB,  
UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;M  
AAhB,OAAGb,cAAhB,C;QAAGb,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OnBxmHT,K;;MmBymHnC,  
OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAAR,iBAAQ,EAAO  
,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAGb,cAAhB,C;QAAGb,yB;QAAU,OAAO,cAAP,EAAO  
,sBAAP,YAAkB,OpCvqHT,K;;MoCwqHnC,OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,UAAiB,M;MAFjC,Y  
AAY,c;MACZ,aAAqB,UAAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAGb,cAA  
hB,C;QAAGb,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OIcxqHP,K;;MkCyqHrC,OAAO,gBAAy,MAAZ,  
C;K;iFAGX,yB;MAAA,uC;MvB/tEA,iD;MuB+tEA,sC;QAOI,OAAO,mBvBjuEA,qBuBiuEU,iBvBjuEV,EU  
BiuEoB,QAAS,QvBjuE7B,CuBiuEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvBjuEA,iD;MuBiuEA,sC;QAOI,  
OAAO,oBvBnuEA,qBuBmuEW,iBvBnuEX,EUbmuEqB,QAAS,QvBnuE9B,CuBmuEA,C;O;KAPX,C;iFAUA,yB;  
MAAA,yC;MvBnwEA,iD;MuBmwEA,sC;QAOI,OAAO,oBvBrwEA,qBuBqwEW,iBvBrwEX,EUbqwEqB,QAAS,  
QvBrwE9B,CuBqwEA,C;O;KAPX,C;iFAUA,yB;MAAA,2C;MvBrwEA,iD;MuBqwEA,sC;QAOI,OAAO,qBvBvwEA,  
qBuBuwEY,iBvBvwEZ,EUbuwEsB,QAAS,QvBvwE/B,CuBuwEA,C;O;KAPX,C;IAUA,2B;MAQI,IAAI,iBAAO,  
CAAX,C;QAAC,YAAU,SAAV,EAAGb,CAAhB,EAAMb,cAAnB,C;K;IAGIB,2B;MAQI,IAAI,iBAAO,CAAX,C;  
QAAC,YAAU,SAAV,EAAGb,CAAhB,EAAMb,cAAnB,C;K;IAGIB,2B;MAQI,IAAI,iBAAO,CAAX,C;QAAC,  
YAAU,SAAV,EAAGb,CAAhB,EAAMb,cAAnB,C;K;IAGIB,+C;MAA0B,yB;QAAA,YAAiB,C;MAAG,uB;  
QAAA,UAAe,c;MACzD,oCAaA,2BAaKB,SAaIB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAGb,  
SAAhB,EAA2B,OAA3B,

C;K;IAGJ,+C;MAa2B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BAAkB,SAaIB,EAA6B,OAA7B,EAAsC,cAAAT,C;MACb,YAAU,SAaV,EAAGb,SAAhB,EAA2B,OAA3B,C;K;IAGJ,+C;MAa2B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BAAkB,SAaIB,EAA6B,OAA7B,EAAsC,cAAAT,C;MACb,YAAU,SAaV,EAAGb,SAAhB,EAA2B,OAA3B,C;K;IAGJ,+C;MAa4B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC3D,oCAAa,2BAAkB,SAaIB,EAA6B,OAA7B,EAAsC,cAAAT,C;MACb,YAAU,SAaV,EAAGb,SAAhB,EAA2B,OAA3B,C;K;IAGJ,0D;MAaI,kBAaK,SAAL,EAAGb,OAaHb,C;MAh8CQ,WAAR,iBAAQ,EAi8CA,SAj8CA,EAi8CW,OAj8CX,C;K;IAo8CZ,0D;MAaI,kBAaK,SAAL,EAAGb,OAaHb,C;MAj8CQ,WAAR,iBAAQ,EAk8CA,SAI8CA,EAk8CW,OAi8CX,C;K;IAq8CZ,0D;MAaI,kBAaK,SAAL,EAAGb,OAaHb,C;MAI8CQ,UAAR,iBAAQ,EA m8CA,SA n8CA,EA m8CW,OA n8CX,C;K;IA s8CZ,0D;MAaI,kBAaK,SAAL,EAAGb,OAaHb,C;MA n8CQ,WAAR,iBAAQ,EA o8CA,SA p8CA,EA o8CW,OA p8CX,C;K;8FAu8CZ,qB;MAQI,OAAO,iBvB3jGiB,Q;K;4FuB8jG5B,qB;MAQI,OAAO,iBvBljGiB,Q;K;8FuBqjG5B,yB;MAAA,gD;MAAA,4B;QAQI,OAAe,OAAR,iBAAQ,C;O;KARnB,C;gGAWA,qB;MAQI,OAAO,iBvBlIjGiB,Q;K;IuB2lIGL,gD;MAAA,wB;QAAW,qCAAK,KAAL,C;O;K;IANIC,iC;MAMI,OAAO,iBAAM,cAAN,EAAY,8BAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCAAK,KAAL,C;O;K;IANIC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCAAK,KAAL,C;O;K;IANIC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCAAK,KAAL,C;O;K;IANIC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASiB,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IANvC,iC;MAMI,OJnqIO,eAAW,+BIImqIA,gBJnqIA,GAAGb,kBIImqIV,8BJnqIU,CAAhB,CAAX,C;K;gGIsqIX,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SvBppGM,QuBopGjB,C;O;KARX,C;IAiB2B,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IANtC,gC;MAMI,OHvrIO,cAAU,gCGurIA,gBHvrIA,GAAe,iBGurIT,6BHvrIS,CAAF,CAAV,C;K;8FG0rIX,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,mBAAU,SvBppGO,QuBopGjB,C;O;KARX,C;IAiB4B,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IANvC,iC;MAMI,OF3sIO,eAAW,kBE2sIA,gBF3sIA,EAAGb,kBE2sIV,8BF3sIU,CAAhB,CAAX,C;K;gGE8sIX,yB;MAAA,gD;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAGb,OAAL,SAAK,CAAhB,C;O;KARX,C;IAiB6B,kD;MAAA,wB;QAAW,0BAAK,KAAL,C;O;K;IANx C,kC;MAMI,OD/tIO,gBAAY,gCC+tIA,gBD/tIA,GAAiB,mBC+tIX,+BD/tIW,CAAjB,CAAZ,C;K;KgCkuIX,yB;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SvBtsGK,QuBssGjB,C;O;KARX,C;mgAWA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAAYC,cAAIB,YAAY,cAAZ,CAAKB,EAAC,EAAD,CAAzC,C;QAsEG,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UArEO,MASEp,aAAI,OAAJ,EAteE,aAsEF,CAAC,OAAd,CAAb,C;;QAtEhB,OAauB,M;O;Kaf3B,C;mgAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAAYC,cAAIB,YAAY,cAAZ,CAAKB,EAAC,EAAD,CAA1C,C;QAsEG,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UArEO,MASEp,aAAI,OAAJ,EAteE,aAsEF,CAAC,OAAd,CAAb,C;;QAtEhB,OAauB,M;O;Kaf3B,C;mgAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA0C,cAAIB,YAAY,cAAZ,CAAKB,EAAC,EAAD,CAA1C,C;QAsEG,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UArEO,MASEp,aAAI,OAAJ,EAteE,aAsEF,CAAC,OAAd,CAAb,C;;QAtEhB,OAauB,M;O;Kaf3B,C;mgAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA2C,cAAIB,YAAY,cAAZ,CAAKB,EAAC,EAAD,CAA3C,C;QAsEG,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UArEO,MASEp,aAAI,OAAJ,EAteE,aAsEF,CAAC,OAAd,CAAb,C;;QAtEhB,OAauB,M;O;Kaf3B,C;uGakBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAGb,cAAhB,C;QAAGb,yB;QACZ,WAAY,aAAI,OAAJ,EAaA,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAGb,cAAhB,C;QAAGb,yB;QACZ,WAAY,aAAI,OAAJ,EAaA,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAGb,cAAhB,C;QAAGb,yB;QACZ,WAAY,aAAI,OAAJ,EAaA,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uFAGX,yB;MAAA,+D;MAoLA,gD;MApLA,uC;QASW,kBAAU,gB;QAKLD,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAgB,yB;UACZ,WAnL6B,SAmLIB,CAAU,OAaV,C;UACC,OAaZ,WAAY,EAaO,IAAP,C;;QApLhB,OAsLO,W;O;KA/LX,C;uFAYA,yB;MAAA,+D;MASLA,gD;MatLA,uC;QASW,kBAAU,gB;QAoLD,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UACZ,WArL6B,SAqLIB,CAAU,OAaV,C;UACC,OAaZ,WAAY,EAaO,IAAP,C;;QAtLhB,OAwLO,W;O;KAjMX,C;uFAYA,yB;MAAA,+D;MAwLA,gD;MAxLA,uC;QASW,kBAAU,gB;QAsLD,Q;QAAA,2B;QAaHb,OAAGb,cAAhB,C;UAAGb,yB;UACZ,WAvL6B,SAuLIB,CAAU,OAaV,C;UACC,OAaZ,WAAY,EAaO,IAAP,C;;QAxLhB,OA0LO,W;O;KAnMX,C;uFAYA,yB;MAAA,+D;MA0LA,gD;MA1LA,uC;QA

SW,kBAAU,gB;QAwLD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WaZL6B,SAyLIB,CAAU, OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1LhB,OA4LO,W;O;KArMX,C;qGAYA,yB;MAAA,+D;MA4 DA,gD;MA5DA,uC;QAYW,kBAAiB,gB;QA2DR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UA AgB,yB;UACZ,WA5DoC,SA4DzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EA AO,IAAP,C;;QA7DhB,OA+DO,W;O;KA3EX,C;qGAeA,yB;MAAA,+D;MA+DA,gD;MA/DA,uC;QAYW,kBAAi B,gB;QA8DR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WA/DoC,SA+DzB, EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9EhB,OAkEO,W;O ;KA9EX,C;qGAeA,yB;MAAA,+D;MAkEA,gD;MAIEA,uC;QAYW,kBAAiB,gB;QAiER,gB;QADhB,YAAY,C;Q ACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAlEOc,SAkEzB,EAAU,cAAV,EAAU,sBAAV,WAAmB ,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAnEhB,OAqEO,W;O;KAjFX,C;qGAeA,yB;MAAA,+D;MAq EA,gD;MArEA,uC;QAYW,kBAAiB,gB;QAoER,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UA AgB,yB;UACZ,WArEOc,SAqEzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EA AO,IAAP,C;;QAtEhB,OAwEO,W;O;KApFX,C;yGAeA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YA AY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB, OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAfX,C;yGAKBA,yB;MAAA,gD;MAAA ,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,WAA U,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAfX, C;yGAKBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,2B;QAAhB,OAAGB,cAAhB,C ;UAAgB,yB;UACZ,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IA AP,C;;QAEhB,OAEO,W;O;KAfX,C;yGAKBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;Q ACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB ,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAfX,C;2FAkBA,yB;MAAA,gD;MAAA,oD;QA OoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAA Y,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAXX,C;2FAcA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAA hB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAE hB,OAEO,W;O;KAXX,C;2FAcA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;U AAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAXX, C;2FAcA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,WAA W,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAEO,W;O;KAXX,C;uFAcA,yB;MAAA,w E;MA4HA,+D;MA5HA,yC;QAYW,kBAAU,oB;QA4HD,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;U ACZ,UA7HoD,WA6H1C,CAAY,OAAZ,C;U/B59IP,U;UADP,Y+B89Ie,W/B99IH,W+B89IwB,G/B99IxB,C;UAC L,IAAI,aAAJ,C;YACH,a+B49IuC,gB;YAA5B,W/B39IX,a+B29IgC,G/B39IhC,EAAS,MAAT,C;YACA,e;;YAEA, c;;U+Bw9IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA/HT,OAIIO,W;O;KA7IX,C;uFAeA,yB;MAAA,wE;MAiIA,+D; MAjIA,yC;QAYW,kBAAU,oB;QAiID,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAlIqD,WAK I3C,CAAY,OAAZ,C;U/Bh/IP,U;UADP,Y+Bk/Ie,W/BI/IH,W+Bk/IwB,G/BI/IxB,C;UACL,IAAI,aAAJ,C;YACH,a+ Bg/IuC,gB;YAA5B,W/B/+IX,a+B++IgC,G/B/+IhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B4+IA,iB;UACA,IAA K,WAAI,OAAJ,C;;QApIT,OASIO,W;O;KAlJX,C;sFAeA,yB;MAAA,wE;MASIA,+D;MAtIA,yC;QAYW,kBAAU, oB;QAsID,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAvIqD,WauI3C,CAAY,OAAZ,C;U/Bp gJP,U;UADP,Y+BsgJe,W/BtgJH,W+BsgJwB,G/BtgJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BogJuC,gB;YAA5B,W/ BngJX,a+BmgJgC,G/BngJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BggJA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q AzIT,OA2IO,W;O;KAvJX,C;uFAeA,yB;MAAA,wE;MA2IA,+D;MA3IA,yC;QAYW,kBAAU,oB;QA2ID,Q;QAA A,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UA5IsD,WA4I5C,CAAY,OAAZ,C;U/BxhJP,U;UADP,Y+B0 hJe,W/B1hJH,W+B0hJwB,G/B1hJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BwhJuC,gB;YAA5B,W/BvhJX,a+BuhJgC ,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B0hJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9IT,OAqJO,W;O ;KA5JX,C;uFAeA,yB;MAAA,wE;MAGJA,+D;MAhJA,yD;QAaW,kBAAU,oB;QAgJD,Q;QAAA,2B;QAAhB,OA AgB,cAAhB,C;UAAgB,yB;UACZ,UajJiD,WaiJvC,CAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+ iJwB,G/B/iJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,EAAS,MAAT ,C;YACA,e;;YAEA,c;;U+ByiJA,iB;UACA,IAAK,WAnJyD,cAmJrD,CAAE,OAAf,CAAJ,C;;QAnJT,OAqJO,W;O;

KAIKX,C;uFAGBA,yB;MAAA,wE;MAqJA,+D;MArJA,yD;QAaW,kBAAU,oB;QAqJD,Q;QAAA,2B;QAAhB,OA  
AgB,cAAhB,C;UAAgB,yB;UACZ,UAtJiD,WAsJvC,CAAY,OAAZ,C;U/BlkJP,U;UADP,Y+BokJe,W/BpkJH,W+B  
okJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/BjkJX,a+BikJgC,G/BjkJhC,EAAS,M  
AAT,C;YACA,e;;YAEA,c;;U+B8jJA,iB;UACA,IAAK,WAxJyD,cAwJrD,CAAe,OAAf,CAAJ,C;;QAxJT,OA0JO,  
W;O;KAvKX,C;uFAGBA,yB;MAAA,wE;MA0JA,+D;MA1JA,yD;QAaW,kBAAU,oB;QA0JD,Q;QAAA,2B;QAAh  
B,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UA3JiD,WA2JvC,CAAY,OAAZ,C;U/BvIJP,U;UADP,Y+BylJe,W/BzlJH,  
W+BylJwB,G/BzlJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtlJX,a+BslJgC,G/BtlJhC,EAAS,  
MAAT,C;YACA,e;;YAEA,c;;U+BmlJA,iB;UACA,IAAK,WA7JyD,cA6JrD,CAAe,OAAf,CAAJ,C;;QA7JT,OA+J  
O,W;O;KA5KX,C;uFAGBA,yB;MAAA,wE;MA+JA,+D;MA/JA,yD;QAaW,kBAAU,oB;QA+JD,Q;QAAA,2B;QA  
AhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAhKiD,WAgKvC,CAAY,OAAZ,C;U/B5mJP,U;UADP,Y+B8mJe,W  
/B9mJH,W+B8mJwB,G/B9mJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B4mJuC,gB;YAA5B,W/B3mJX,a+B2mJgC,G/  
B3mJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BwmJA,iB;UACA,IAAK,WAlKyD,cAkKrD,CAAe,OAAf,CAAJ  
,C;;QAIKT,OAoKO,W;O;KAjLX,C;2FAGBA,yB;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAGB,c  
AAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B59IP,U;UADP,Y+B89Ie,W/B99IH,W+B89IwB,G/B99I  
x B,C;UACL,IAAI,aAAJ,C;YACH,a+B49IuC,gB;YAA5B,W/B39IX,a+B29IgC,G/B39IhC,EAAS,MAAT,C;YACA,e  
;;YAEA,c;;U+Bw9IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;  
MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/Bh/I  
P,U;UADP,Y+Bk/Ie,W/BI/IH,W+Bk/IwB,G/BI/IxB,C;UACL,IAAI,aAAJ,C;YACH,a+Bg/IuC,gB;YAA5B,W/B/+I  
X,a+B++IgC,G/B/+IhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B4+IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,  
OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UA  
AgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BpgJP,U;UADP,Y+BsgJe,W/BtgJH,W+BsgJwB,G/BtgJxB,C;UACL,I  
AAI,aAAJ,C;YACH,a+BogJuC,gB;YAA5B,W/BngJX,a+BmgJgC,G/BngJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;  
U+BggJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;Q  
AYoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BxhJP,U;UADP,Y  
+B0hJe,W/B1hJH,W+B0hJwB,G/B1hJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BwhJuC,gB;YAA5B,W/BvhJX,a+Buh  
JgC,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BohJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W  
;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;U  
ACZ,UAAU,YAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+iJwB,G/B/iJxB,C;UACL,IAAI,aAAJ,C;  
YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+ByiJA,iB;UA  
CA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE;QAao  
B,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BlkJP,U;UADP,Y+Bok  
Je,W/BpkJH,W+BokJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/BjkJX,a+BikJgC,G/  
BjkJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B8jJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OA  
AO,W;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB  
,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BvIJP,U;UADP,Y+BylJe,W/BzlJH,W+BylJwB,G/BzlJxB,C;UACL,IAAI,a  
AAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtlJX,a+BslJgC,G/BtlJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BmlJA  
,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAIBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE  
;QAaoB,Q;QAAA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B5mJP,U;UADP  
,Y+B8mJe,W/B9mJH,W+B8mJwB,G/B9mJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B4mJuC,gB;YAA5B,W/B3mJX,  
a+B2mJgC,G/B3mJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BwmJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CA  
AJ,C;;QAET,OAAO,W;O;KAIBX,C;+EAqBA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA  
,Q;QAAA,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAy,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB  
,OAwKO,W;O;KAILX,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2  
B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAy,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,  
W;O;KAILX,C;8EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2B;QAAb,O  
AAa,cAAb,C;UAAa,sB;UACT,WAAy,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAILX  
,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2B;QAAb,OAAa,cAAb,  
C;UAAa,sB;UACT,WAAy,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAILX,C;4FAaA,y



c,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MADhB,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAAnB,EAAGC,OAAhC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAAnB,EAAGC,OAAhC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAAnB,EAAGC,OAAhC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAakB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAAnB,EAAGC,OAAhC,C;;MACpC,OAAO,W;K;0FAGX,yB;MA1uDI,8D;MA0uDJ,gD;QAeoC,Q;QAHhC,YAtvDgB,cAAR,iBAAQ,C;QAuvDhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAl,oBAAJ,QAaV,EAawB,WAAxB,C;;QAEIB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAtvDI,8D;MASvDJ,gD;QAeoC,Q;QAHhC,YAlwDgB,cAAR,iBAAQ,C;QAmwDhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAl,oBAAJ,QAaV,EAawB,WAAxB,C;;QAEIB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MA1wDI,8D;MAkwDJ,gD;QAeoC,Q;QAHhC,YA9wDgB,cAAR,iBAAQ,C;QA+wDhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAl,oBAAJ,QAaV,EAawB,WAAxB,C;;QAEIB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MA9wDI,8D;MA8wDJ,gD;QAeoC,Q;QAHhC,YA1xDgB,cAAR,iBAAQ,C;QA2xDhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAl,oBAAJ,QAaV,EAawB,WAAxB,C;;QAEIB,OAAO,W;O;KAjBX,C;yGAsBA,yB;MA1zDI,8D;MA0zDJ,gD;QAaI,YAv0DgB,cAAR,iBAAQ,C;QAw0DhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAaV,EAaiB,sBAAI,KAaJ,CAajB,EAa6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAx0DI,8D;MAw0DJ,gD;QAaI,YAr1DgB,cAAR,iBAAQ,C;QAs1DhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAaV,EAaiB,sBAAI,KAaJ,CAajB,EAa6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAp2DI,8D;MAo2DJ,gD;QAaI,YAj3DgB,cAAR,iBAAQ,C;Qak3DhB,kBAakB,O;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAaV,EAaiB,sBAAI,KAaJ,CAajB,EAa6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;uFAsBA,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;K;qGAG1B,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qGAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qGAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;IAGvB,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;mFAGX,yB;MA9gEI,8D;MA8gEJ,sC;QAMW,sB;;UAuCP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA7jEgB,cAAR,iBAAQ,C;UA8jEhB,IAAI,cAAa,CAajB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3CmB,QA2CJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ce,QA8CP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApDP,yB;O;KANJ,C;mFASA,yB;MAgEI,8D;MA+gEJ,sC;QAMW,sB;;UAuDP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA9kEgB,cAAR,iBAAQ,C;UA+kEhB,IAAI,cAAa,CAajB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3DmB,QA2DJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9De,QA8DP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApEP,yB;O;KANJ,C;mFASA,yB;MAhhEI,8D;MAghEJ,sC;QAMW,sB;;UAuEP,IAAI,mBAAJ,C;YAAe,qBAAO,I;Y



AAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA/IEgB,cAAR,iBAAQ,C;UAgmEhB,IAAI,cAAa,CAAjB,C;YA  
AoB,qBAAO,O;YAAP,uB;WACpB,eA3EmB,QA2EJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YAC  
I,QAAQ,sBAAK,CAAL,C;YACR,QA9Ee,QA8EP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAJ,C;cACI,U  
AAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApFP,yB;O;KANJ,C;mFASA,yB;MAjhEI,8D;MAihEJ,sC;QAM  
W,sB;;UAuFP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhnEgB,cA  
AR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3FmB,QA2FJ,CAAS,O  
AAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Fe,QA8FP,CAAS,CAA  
T,C;YACR,IAAI,2BAAW,CAAX,KAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApGP,yB;O;  
KANJ,C;+FASA,yB;MAIjEI,8D;MAkjEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,cAAc,sBAAK,CAAL,  
C;QACd,gBA7jEgB,cA6jEA,SA7jER,QAAQ,C;QA8jEhB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe  
,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UACR,QAAQ,SAAS,CAA  
T,C;UACR,IAAI,2BAAW,CAAX,KAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAtBX,C;+F  
AyBA,yB;MAnkEI,8D;MAMkEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,cAAc,sBAAK,CAAL,C;QAC  
d,gBA9kEgB,cA8kEA,SA9kER,QAAQ,C;QA+kEhB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SA  
AS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C  
;UACR,IAAI,2BAAW,CAAX,KAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAtBX,C;+Fay  
BA,yB;MAplEI,8D;MAolEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,cAAc,sBAAK,CAAL,C;QACd,gB  
A/IEgB,cA+IEA,SA/IER,QAAQ,C;QAgmEhB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OA  
AT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UAC  
R,IAAI,2BAAW,CAAX,KAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAtBX,C;+FayBA,yB;MA  
;MArmEI,8D;MAqmEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,cAAc,sBAAK,CAAL,C;QACd,gBAhn  
EgB,cAgnEA,SAhnER,QAAQ,C;QAinEhB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,  
C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IA  
AI,2BAAW,CAAX,KAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAtBX,C;kFayBA,yB;MA  
AA,sE;MATpEI,8D;MpBnwHJ,iB;MoBy5LA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eA  
Ae,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtqEG,cAAR,iBAAQ,C;QAsqEhB,aAAU,CAAV,iB;UACI,QAAQ,S  
AAS,sBAAK,CAAL,CAAT,C;UACR,WpBn6LG,MAAO,KoBm6LO,QpBn6LP,EoBm6LiB,CpBn6LjB,C;;QoBq6  
Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MARqEI,8D;MpB3wHJ,iB;MoBg7LA,sC;QAgBiB,Q;QAFb,I  
AAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArrEG,cAAR,iBAAQ,  
C;QAqrEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB17LG,MAAO,KoB07LO  
,QpB17LP,EoB07LiB,CpB17LjB,C;;QoB47Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAprEI,8D;MpB  
nxHJ,iB;MoBu8LA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL  
,CAAT,C;QACF,OapsEG,cAAR,iBAAQ,C;QAosEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CA  
AT,C;UACR,WpBj9LG,MAAO,KoBi9LO,QpBj9LP,EoBi9LiB,CpBj9LjB,C;;QoBm9Ld,OAAO,Q;O;KApBX,C;m  
FAuBA,yB;MAAA,sE;MAnsEI,8D;MpB3xHJ,iB;MoB89LA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM  
,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAntEG,cAAR,iBAAQ,C;QAmtEhB,aAAU,CAAV,iB;  
UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBx+LG,MAAO,KoBw+LO,QpBx+LP,EoBw+LiB,CpBx  
+LjB,C;;QoB0+Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAIvEI,8D;MpB9wHJ,iB;MoBggMA,sC;QA  
gBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlwEG,  
cAAR,iBAAQ,C;QakwEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB1gMG,  
MAAO,KoB0gMO,QpB1gMP,EoB0gMiB,CpB1gMjB,C;;QoB4gMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,  
sE;MAjwEI,8D;MpBtxHJ,iB;MoBuhMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,  
SAAS,sBAAK,CAAL,CAAT,C;QACF,OajxEG,cAAR,iBAAQ,C;QAixEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,  
sBAAK,CAAL,CAAT,C;UACR,WpBjiMG,MAAO,KoBiiMO,QpBjiMP,EoBiiMiB,CpBjiMjB,C;;QoBmiMd,OA  
AO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxEI,8D;MpB9xHJ,iB;MoB8iMA,sC;QAgBiB,Q;QAFb,IAAI,mB  
AAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhYEG,cAAR,iBAAQ,C;QAgY  
EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBxjMG,MAAO,KoBwjMO,QpBxj  
MP,EoBwjMiB,CpBxjMjB,C;;QoB0jMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/xEI,8D;MpBtyHJ,i

B;MoBqkMA,sC;QAGbIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/yEG,cAAR,iBAAQ,C;QA+yEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/kMG,MAAO,KoB+kMO,QpB/kMP,EoB+kMiB,CpB/kMjB,C;;QoBilMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA90EI,8D;MA80EJ,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51EG,cAAR,iBAAQ,C;QA41EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA71EI,8D;MA61EJ,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA32EG,cAAR,iBAAQ,C;QA22EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52EI,8D;MA42EJ,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA13EG,cAAR,iBAAQ,C;QA03EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA33EI,8D;MA23EJ,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAz4EG,cAAR,iBAAQ,C;QAY4EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;8FAuBA,yB;MA16EI,8D;MpBnwHJ,iB;MoB6qMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx7EG,cAAR,iBAAQ,C;QAw7EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBrrMG,MAAO,KoBqrMO,QpBrrMP,EoBqrMiB,CpBrrMjB,C;;QoBurMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MAv7EI,8D;MpB3wHJ,iB;MoBksMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA8EG,cAAR,iBAAQ,C;QAq8EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB1sMG,MAAO,KoB0sMO,QpB1sMP,EoB0sMiB,CpB1sMjB,C;;QoB4sMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MAP8EI,8D;MpBnxHJ,iB;MoButMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA19EG,cAAR,iBAAQ,C;QAK9EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/tMG,MAAO,KoB+tMO,QpB/tMP,EoB+tMiB,CpB/tMjB,C;;QoBiuMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MAj9EI,8D;MpB3xHJ,iB;MoB4uMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/9EG,cAAR,iBAAQ,C;QA+9EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpvMG,MAAO,KoBovMO,QpBpvMP,EoBovMiB,CpBpvMjB,C;;QoBsvMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MA9/EI,8D;MpB9wHJ,iB;MoB4wMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5gFG,cAAR,iBAAQ,C;QA4gFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpxMG,MAAO,KoBoxMO,QpBpxMP,EoBoxMiB,CpBpxMjB,C;;QoBsxMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MA3gFI,8D;MpBtxHJ,iB;MoBiyMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAzhFG,cAAR,iBAAQ,C;QAYhFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBzyMG,MAAO,KoByyMO,QpBzyMP,EoByyMiB,CpBzyMjB,C;;QoB2yMd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MAXhFI,8D;MpB9xHJ,iB;MoBszMA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtiFG,cAAR,iBAAQ,C;QAsiFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB9zMG,MAAO,KoB8zMO,QpB9zMP,EoB8zMiB,CpB9zMjB,C;;QoBg0Md,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MAriFI,8D;MpBtyHJ,iB;MoB20MA,sC;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9FG,cAAR,iBAAQ,C;QA8IFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MA/IFI,8D;MA+IFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3mFG,cAAR,iBAAQ,C;QA2mFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MA5mFI,8D;MA4mFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QA

CtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxnFG,cAAR,iBAAQ,C;QAwnFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAznFI,8D;MAynFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArFG,cAAR,iBAAQ,C;QAqoFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MATqFI,8D;MASqFJ,kD;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprFG,cAAR,iBAAQ,C;QAorFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;0FAuBA,yB;MAAA,sE;MArrFI,8D;MAqrFJ,kD;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnsFG,cAAR,iBAAQ,C;QamsFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAAA,sE;MApsFI,8D;MAosFJ,kD;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAltFG,cAAR,iBAAQ,C;QaktFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAAA,sE;MAntFI,8D;MAmtFJ,kD;QACiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OajuFG,cAAR,iBAAQ,C;QAiuFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;uGAuBA,yB;MAIwFI,8D;MAkwFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9wFG,cAAR,iBAAQ,C;QA8wFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;sgAqBA,yB;MA+wFI,8D;MA+wFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3xFG,cAAR,iBAAQ,C;QA2xFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MA5xFI,8D;MA4xFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxyFG,cAAR,iBAAQ,C;QAwyFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MAzyFI,8D;MAyyFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArzFG,cAAR,iBAAQ,C;QAqzFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;IAqBA,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA91FG,gBAAR,iBAAQ,C;MA81FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InC5mN8D,YmC4mN1D,GnC5mN2E,KAAjB,EmC4mNpD,CnC5mNiF,KAA7B,CmC4mN1D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAr2FG,gBAAR,iBAAQ,C;MAq2FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InBnnN+D,amBmnN3D,GnBnnN6E,KAAIB,EmBmnNrD,CnBnnNmF,KAA9B,CmBmnN3D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAn3FG,gBAAR,iBAAQ,C;MAm3FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IlCjqN6E,0BkCiqNzE,GIC77M8B,KAAAL,GAAiB,KApO+B,EkCiqNnE,CIC77MwB,KAAAL,GAAiB,KApO+B,CkCiqNzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAAd,C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA17FG,gBAAR,iBAAQ,C;MA07FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAA



mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArrGG,cAAR,iBAAQ,C;QAqrGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtuNG,MAAO,KoBsuNO,QpBtuNP,EoBsuNiB,CpBtuNjB,C;;QoBwuNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAprGI,8D;MpB/jHJ,iB;MoBmvNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprGG,cAAR,iBAAQ,C;QAosGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB7vNG,MAAO,KoB6vNO,QpB7vNP,EoB6vNiB,CpB7vNjB,C;;QoB+vNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAnsGI,8D;MpBvkHJ,iB;MoB0wNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAntGG,cAAR,iBAAQ,C;QAmtGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpxNG,MAAO,KoBoxNO,QpBpxNP,EoBoxNiB,CpBpxNjB,C;;QoBsxDnd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAlvGI,8D;MpB1jHJ,iB;MoB4yNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlwGG,cAAR,iBAAQ,C;QakwGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtzNG,MAAO,KoBszNO,QpBtzNP,EoBszNiB,CpBtzNjB,C;;QoBwzNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAjwGI,8D;MpBlkHJ,iB;MoBm0NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAJxGG,cAAR,iBAAQ,C;QAixGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB70NG,MAAO,KoB60NO,QpB70NP,EoB60NiB,CpB70NjB,C;;QoB+0Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxGI,8D;MpB1kHJ,iB;MoB01NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhYGG,cAAR,iBAAQ,C;QAgyGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBp2NG,MAAO,KoBo2NO,QpBp2NP,EoBo2NiB,CpBp2NjB,C;;QoBs2Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/xGI,8D;MpBlIHJ,iB;MoBi3NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAYGG,cAAR,iBAAQ,C;QA+yGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB33NG,MAAO,KoB23NO,QpB33NP,EoB23NiB,CpB33NjB,C;;QoB63Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA90GI,8D;MA80GJ,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51GG,cAAR,iBAAQ,C;QA41GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA71GI,8D;MA61GJ,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA32GG,cAAR,iBAAQ,C;QA22GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52GI,8D;MA42GJ,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA13GG,cAAR,iBAAQ,C;QA03GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA33GI,8D;MA23GJ,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAz4GG,cAAR,iBAAQ,C;QAY4GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;8FAuBA,yB;MA16GI,8D;MpB/iHJ,iB;MoBy9NA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QAcIB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx7GG,cAAR,iBAAQ,C;QAw7GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBj+NG,MAAO,KoBi+NO,QpBj+NP,EoBi+NiB,CpBj+NjB,C;;QoBm+Nd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAv7GI,8D;MpBvjHJ,iB;MoB8+NA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QAcIB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAr8GG,cAAR,iBAAQ,C;QAq8GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBt/NG,MAAO,KoBs/NO,QpBt/NP,EoBs/NiB,CpBt/NjB,C;;QoBw/Nd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAp8GI,8D;MpB/jHJ,iB;MoBmgOA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QAcIB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAI9GG,cAAR,iBAAQ,C;QAK9GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB3gOG,MAAO,KoB2gOO,QpB3gOP,EoB2gOiB,CpB3gOjB,C;;QoB6gOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAj9GI,8D;MpBvkHJ,iB;MoBwhOA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QAcIB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/9GG,cAAR,iBAAQ,C;QA+9GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhiOG,MAAO,KoBgiOO,QpBhiOP,EoBgiOiB,CpBhiOjB,C;;QoBkiOd,

OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9/GI,8D;MpB1jHJ,iB;MoBwjOA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UA Ae,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5gHG,cAAR,iBAAQ,C;QA4gHhB,aAAU,C AAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhkOG,MAAO,KoBgkOO,QpBhkOP,EoBgkOi B,CpBhkOjB,C;;QoBkkOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA3gHI,8D;MpBlkHJ,iB;MoB6kOA,sC;QAcIB, Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAzhHG,cAAR,i BAAQ,C;QAYhHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBrlOG,MAAO,Ko BqlOO,QpBrlOP,EoBqlOiB,CpBrlOjB,C;;QoBulOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAxhHI,8D;MpB1kHJ,i B;MoBkmOA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C; QACF,OAthHG,cAAR,iBAAQ,C;QAsiHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UAC R,WpB1mOG,MAAO,KoB0mOO,QpB1mOP,EoB0mOiB,CpB1mOjB,C;;QoB4mOd,OAAO,Q;O;KAlBX,C;+FAq BA,yB;MAriHI,8D;MpBlIHJ,iB;MoBunOA,sC;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,S AAS,sBAAK,CAAL,CAAT,C;QACF,OAnjHG,cAAR,iBAAQ,C;QAmjHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS ,sBAAK,CAAL,CAAT,C;UACR,WpB/nOG,MAAO,KoB+nOO,QpB/nOP,EoB+nOiB,CpB/nOjB,C;;QoBioOd,OA AO,Q;O;KAlBX,C;+FAqBA,yB;MAlIHl,8D;MAkiHJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACt B,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9IHG,cAAR,iBAAQ,C;QA8IHhB,aAAU,CAAV,iB;UACI,QA AQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q; O;KAlBX,C;+FAqBA,yB;MA/lHI,8D;MA+lHJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAA e,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3mHG,cAAR,iBAAQ,C;QA2mHhB,aAAU,CAAV,iB;UACI,QAAQ,S AAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAl BX,C;+FAqBA,yB;MA5mHI,8D;MA4mHJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,S AAS,sBAAK,CAAL,CAAT,C;QACF,OAxnHG,cAAR,iBAAQ,C;QawnHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX, C;+FAqBA,yB;MAznHI,8D;MAynHJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,s BAAK,CAAL,CAAT,C;QACF,OArHG,cAAR,iBAAQ,C;QAqoHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBA AK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2F AqBA,yB;MAAA,sE;MATqHI,8D;MASqHJ,kD;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe ,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprHG,cAAR,iBAAQ,C;QAorHhB,aAAU,CAAV,iB;UACI,QAAQ,SA AS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAT,C,C;YAC I,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;0FAuBA,yB;MAAA,sE;MArrHI,8D;MAqrHJ,kD;QAcIB,Q;QAFb,I AAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnsHG,cAAR,iBAAQ, C;QAmshhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR, EAakB,CAAIB,CAAX,GAakC,CAAT,C,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAA A,sE;MApsHI,8D;MAosHJ,kD;QAcIB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK, CAAL,CAAT,C;QACF,OAlHG,cAAR,iBAAQ,C;QaktHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAA L,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAT,C,C;YACI,WAAW,C;;QA GnB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAAA,sE;MAntHI,8D;MAmtHJ,kD;QAcIB,Q;QAFb,IAAI,mBAAJ,C; UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjuHG,cAAR,iBAAQ,C;QAiuHhB,aA AU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB, CAAX,GAakC,CAAT,C,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;uGAuBA,yB;MAlwHI,8D;MAkwHJ ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9 wHG,cAAR,iBAAQ,C;QA8wHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,U AAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAT,C,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C ;sGAqBA,yB;MA/wHI,8D;MA+wHJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,s BAAK,CAAL,CAAT,C;QACF,OA3xHG,cAAR,iBAAQ,C;QA2xHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBA AK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAAT,C,C;YACI,WAA W,C;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MA5xHI,8D;MA4xHJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;U AAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxyHG,cAAR,iBAAQ,C;QAwyHhB,aAAU, CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CA

AX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAIBX,C;uGAqBA,yB;MAzyHI,8D;MAyyHJ,kD;  
QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAHzHG,  
cAAR,iBAAQ,C;QAqzHhB,AAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,  
SAAQ,QAAR,EAAkB,CAAIB,CAAX,GAaKc,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAIBX,C;IAqB  
A,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OA91HG,gBA  
AR,iBAAQ,C;MA81HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InC5mP8D,YmC4mP1D,GnC5  
mP2E,KAAjB,EmC4mPpD,CnC5mPiF,KAA7B,CmC4mP1D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAG  
X,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OA2HG,gBA  
AR,iBAAQ,C;MAq2HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InBnnP+D,amBmnP3D,GnBnn  
P6E,KAAIB,EmBmnPrD,CnBnnPmF,KAA9B,CmBmnP3D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX  
,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OA52HG,gBAA  
R,iBAAQ,C;MA42HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IpC1pP4E,0BoC0pPxE,GpC/6O  
8B,KAAL,GAAiB,GA3O8B,EoC0pPIE,CpC/6OwB,KAAL,GAAiB,GA3O8B,CoC0pPxE,IAAJ,C;UAAa,MAAM,  
C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CA  
AL,C;MACG,OAn3HG,gBAAR,iBAAQ,C;Mam3HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,I  
ICjqP6E,0BkCiqPzE,GIC77O8B,KAAL,GAAiB,KApO+B,EkCiqPnE,CIC77OwB,KAAL,GAAiB,KApO+B,CkCiq  
PzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAc,C;K;IAGX,2C;MAK  
I,OAAO,4BAAc,UAAc,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAc,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAc,  
C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OA17  
HG,gBAAR,iBAAQ,C;MA07HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,  
GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;M  
AFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OAj8HG,gBAAR,iBAAQ,C;MAi  
8HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,  
GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,O  
AAO,I;MAcTb,UAAU,sBAAK,CAAL,C;MACG,OAx8HG,gBAAR,iBAAQ,C;MAw8HhB,AAAU,CAAV,iB;QAC  
I,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,  
MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MAcTb,UAAU,sBA  
AK,CAAL,C;MACG,OA/8HG,gBAAR,iBAAQ,C;MA+8HhB,AAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;Q  
ACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;  
K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;M  
ASI,OAAO,mB;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAA  
U,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAGB,c  
AAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;M  
ASoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAA  
O,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI  
,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;qFAGX,6B;MAOmC,Q;MAAA,2B;MAAhB,OA  
AGB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAhB,  
OAAGB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAh  
B,OAAGB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MA  
AhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;mGAGJ,6B;MArEiB,gB;MADb,YA  
AY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA  
gsEnB,gB;K;mGAGJ,6B;MArEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QA  
AO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;mGAGJ,6B;MArEiB,gB;MADb,YAAY,C;MACC,  
2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;m  
GAGJ,6B;MArEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAA  
O,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;qFAGJ,yB;MAAA,4F;MA9qII,8D;MA8qIJ,uC;QAmBqB,Q;QAHj  
B,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjsID,cAA  
R,iBAAQ,C;QAisIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAEiB,

OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/rII,8D;MA+rIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAltID,cAAR,iBAAQ,C;QAKtlhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhtII,8D;MAgtIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAnuID,cAAR,iBAAQ,C;QAmuIhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjuII,8D;MAiuIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApvID,cAAR,iBAAQ,C;QAovIhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;mGAYBA,yB;MAAA,4F;MALxII,8D;MAkxII,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OArYID,cAAR,iBAAQ,C;QAqyIhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;mGAYBA,yB;MAAA,4F;MAnyII,8D;MAmyIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAtzID,cAAR,iBAAQ,C;QAszIhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;mGAYBA,yB;MAAA,4F;MAPzII,8D;MAozIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAv0ID,cAAR,iBAAQ,C;QAu0IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;mGAYBA,yB;MAAA,4F;MAR0II,8D;MAq0IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAx1ID,cAAR,iBAAQ,C;QAw1IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;+GAYBA,yB;MAT3II,8D;MAS3IJ,uC;QAKBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx4ID,cAAR,iBAAQ,C;QAw4IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KArBX,C;+GawBA,yB;MAT4II,8D;MAS4IJ,uC;QAKBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx5ID,cAAR,iBAAQ,C;QAw5IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KArBX,C;+GawBA,yB;MAT5II,8D;MAS5IJ,uC;QAKBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx6ID,cAAR,iBAAQ,C;QAw6IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KArBX,C;+GawBA,yB;MAT6II,8D;MAS6IJ,uC;QAKBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx7ID,cAAR,iBAAQ,C;QAw7IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KArBX,C;iGawBA,yB;MAT9II,8D;MAS9IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAz+ID,cAAR,iBAAQ,C;QAY+IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;iGAYBA,yB;MAV+II,8D;MAU+IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAl/ID,cAAR,iBAAQ,C;QA0/IhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;iGAYBA,yB;MAX/II,8D;MAw/IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx3gJD,cAAR,iBAAQ,C;QA2gJhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;iGAYBA,yB;MAZgJI,8D;MAYgJJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx5hJD,cAAR,iBAAQ,C;QA4hJhB,iBAAC,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAA9B,C;;QAEIB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA1jJI,8D;MA0jJJ,uC;QAKB0B,UAEU,M;QAJhC,YA1kJgB,cAAR,iBAAQ,C;QA2kJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA3kJI,8D;MA2kJJ,uC;QAKB0B,UAEU,M;QAJhC,YA3lJgB,cAAR,iBAAQ,C;QA4lJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA5lJI,8D;MA4lJJ,u



C;QakB0B,UAEU,M;QAJhC,YA5mJgB,cAAR,iBAAQ,C;QA6mJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCA  
A8B,+BAA9B,C;QACrB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,  
UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MA  
AA,4F;MA7mJI,8D;MA6mJJ,uC;QakB0B,UAEU,M;QAJhC,YA7nJgB,cAAR,iBAAQ,C;QA8nJhB,IAAI,QAAQ,  
CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,  
SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;  
O;KAtBX,C;6GAyBA,yB;MAAA,4F;MA9pJI,8D;MA8pJJ,uC;QakB0B,Q;QAFtB,YA9qJgB,cAAR,iBAAQ,C;QA  
+qJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,uBAAI,YAAJ,EAAI,oBAA  
J,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,  
C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAAA,4F;MAhrJI,8D;MAgrJJ,uC;QakB0B,Q;QAFtB,  
YAhSjgB,cAAR,iBAAQ,C;QAisJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAak  
B,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,K  
AAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAAA,4F;MAIsJI,8D;M  
AksJJ,uC;QakB0B,Q;QAFtB,YAltJgB,cAAR,iBAAQ,C;QamtJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8  
B,+BAA9B,C;QACrB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UA  
AU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,  
yB;MAAA,4F;MAptJI,8D;MAotJJ,uC;QakB0B,Q;QAFtB,YApuJgB,cAAR,iBAAQ,C;QAquJhB,IAAI,QAAQ,CA  
AZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SA  
AS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,O  
AAO,W;O;KAvBX,C;yHA0BA,yB;MAtwJI,8D;MASwJJ,uC;QaiB0B,Q;QAFtB,YArxJgB,cAAR,iBAAQ,C;QAsx  
JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SA  
S,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OA  
AO,W;O;KAtBX,C;yHAyBA,yB;MAvxJI,8D;MAuxJJ,uC;QaiB0B,Q;QAFtB,YAtyJgB,cAAR,iBAAQ,C;QAuyJh  
B,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,  
CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAA  
O,W;O;KAtBX,C;yHAyBA,yB;MAxyJI,8D;MAwyJJ,uC;QaiB0B,Q;QAFtB,YAvzJgB,cAAR,iBAAQ,C;QAwzJh  
B,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,  
CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAA  
O,W;O;KAtBX,C;yHAyBA,yB;MAzzJI,8D;MAyzJJ,uC;QaiB0B,Q;QAFtB,YAx0JgB,cAAR,iBAAQ,C;QAY0JhB,  
IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,C  
AAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,  
W;O;KAtBX,C;2GAyBA,yB;MA12JI,8D;MA02JJ,uC;QakB0B,UAEU,M;QAJhC,YA13JgB,cAAR,iBAAQ,C;QA  
23JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SA  
AS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;  
KAtBX,C;2GAyBA,yB;MA33JI,8D;MA23JJ,uC;QakB0B,UAEU,M;QAJhC,YA34JgB,cAAR,iBAAQ,C;QA44Jh  
B,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,  
CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAt  
BX,C;2GAyBA,yB;MA54JI,8D;MA44JJ,uC;QakB0B,UAEU,M;QAJhC,YA55JgB,cAAR,iBAAQ,C;QA65JhB,IA  
AI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAA  
hB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAtBX,C  
;2GAyBA,yB;MA75JI,8D;MA65JJ,uC;QakB0B,UAEU,M;QAJhC,YA76JgB,cAAR,iBAAQ,C;QA86JhB,IAAI,Q  
AAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAakB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QACIB,OAAO,SAAS,CAAhB,C  
;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAEIB,OAAO,W;O;KAtBX,C;+F  
AyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QakBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,  
C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBrRO,W;QqBstRP,kBAakB,O;QACF,2  
B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAavB,C;UACd,MAAO,WAAI,  
WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QakBoB,Q;QAHhB,IA  
AI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,

arB9uRO,W;QqB+uRP,kBAAkB,O;QACF,2B;QAaHb,OAAGb,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAaVb,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;+FAyBA,yB;MAAA,gD;M AAA,gE;MAAA,gD;QakBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBvwRO,W;QqBwwRP,kBAAkB,O;QACF,2B;QAaHb,OAAGb,cA AhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAaVb,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAA O,M;O;KATBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QakBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,O AAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBhyRO,W;QqBiyRP, kBAAkB,O;QACF,2B;QAaHb,OAAGb,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAaVb,C;U ACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KATBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAIIKI,0D;M AKIKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,C AAP,IAAb,C;QAA+B,8B;QAA5C,arB1zRO,W;QqB2zRP,kBAAkB,O;QACJ,OArmKE,YAAR,iBAAQ,C;QAqmK F,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA 9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;6GA0BA,yB;MAAA,gD;MAAA,gE;MApm KI,0D;MAomKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBp1RO,W;QqBq1RP,kBAAkB,O;QACJ,OAvnKE,YAAR,iBAAQ, C;QAunKF,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,K AAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;6GA0BA,yB;MAAA,gD;MAAA, gE;MATnKI,0D;MASnKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAv B,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB92RO,W;QqB+2RP,kBAAkB,O;QACJ,OAZoKE,YAAR,i BAAQ,C;QAyoKF,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sB AAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;6GA0BA,yB;MAAA,gD; MAAA,gE;MAxoKI,0D;MAwoKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QAC c,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBx4RO,W;QqBy4RP,kBAAkB,O;QACJ,OA3pK E,YAAR,iBAAQ,C;QA2pKF,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,E AA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;mGA0BA,yB;M AAA,qD;MAAA,gE;MAAA,uC;QakB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBAAK, CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,cAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,arB16RO,W;QqBm6Re,q B;QAAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WA AI,aAAJ,C;;QAEX,OAAO,M;O;KATBX,C;mGAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QakB0B,Q;QAHtB,I AAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,cAAjB,C; QAA+B,sBAAI,aAAJ,C;QAA5C,arB37RO,W;QqB47Re,qB;QAAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAA V,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KATBX,C;mGAyBA,yB; MAAA,qD;MAAA,gE;MAAA,uC;QakB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBAA K,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arBp9RO,W;QqBq9Re,q B;QAAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WA AI,aAAJ,C;;QAEX,OAAO,M;O;KATBX,C;mGAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QakB0B,Q;QAHtB,I AAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBAAK,CAAL,CAAIB,C;QACqC,kBAAxB,eAAkB,cAAIB,C; QAAgC,sBAAI,aAAJ,C;QAA7C,arB7+RO,W;QqB8+Re,qB;QAAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aA AV,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KATBX,C;iHAyBA,yB ;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBA AK,CAAL,CAAIB,C;QACmC,kBAAtB,eAAgB,cAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,arBvgSO,W;QqBwgS e,qB;QAAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C; UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QA mb0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACTb,sBAAkB,sBAAK,CAAL,CAAIB,C;QACoC,kBAAvB, eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arBjiSO,W;QqBkiSe,qB;QAAAtB,iBAAc,CAAd,wB;UACI,gBA Ac,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA O,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,O AAO,W;QACTb,sBAAkB,sBAAK,CAAL,CAAIB,C;QACoC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;

QAA5C,arB3jSO,W;QqB4jSe,qB;QAAtB,iBAAC,CAAd,wB;UACI,gBAAC,UAAU,KAAV,EAAiB,AAAJB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACqC,kBAAXB,eAAkB,cAAlB,C;QAAGC,sBAAI,AAAJ,C;QAA7C,arBrlSO,W;QqBslSe,qB;QAAtB,iBAAC,CAAd,wB;UACI,gBAAC,UAAU,KAAV,EAAiB,AAAJB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,AAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iFA0BA,yB;MAxZA,gD;MAAA,gE;MAwZA,gD;QAGBW,sB;;UAtZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAYZH,OAzZG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAwZzB,OAxZyB,C;UAA5C,arBrRO,W;UqBstRP,kBAuZmB,O;UAtZH,2B;UAAhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cAqZwB,SArZV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAKZP,yB;O;KAhBJ,C;iFamBA,yB;MAIZA,gD;MAAA,gE;MAKZA,gD;QAGBW,sB;;UAhZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAmZH,OAnZG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAkZzB,OAlZyB,C;UAA5C,arB9uRO,W;UqB+uRP,kBAiZmB,O;UAhZH,2B;UAAhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cA+YwB,SA/YV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA4YP,yB;O;KAhBJ,C;iFamBA,yB;MA5YA,gD;MAAA,gE;MA4YA,gD;QAGBW,sB;;UA1YS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OA6YH,OA7YG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA4YzB,OA5YyB,C;UAA5C,arBvwRO,W;UqBvwRP,kBA2YmB,O;UA1YH,2B;UAAhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cAyYwB,SAzYV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAsYP,yB;O;KAhBJ,C;iFamBA,yB;MatYA,gD;MAAA,gE;MAAsYA,gD;QAGBW,sB;;UApYS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAuYH,OAvYG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA5YzB,OAtYyB,C;UAA5C,arBhyRO,W;UqBiyRP,kBAqYmB,O;UApYH,2B;UAAhB,OAAGB,cAAhB,C;YAAgB,yB;YACZ,cAmYwB,SAnYV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGYP,yB;O;KAhBJ,C;+FamBA,yB;MAhYA,gD;MAAA,gE;MAIiKI,0D;MAK9KJ,gD;QAIbW,6B;;UA9XO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OaiYI,OAjYJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAgYIB,OahYkB,C;UAA5C,arB1zRO,W;UqB2zRP,kBA+X0B,O;UA9XZ,OArmKE,YAAR,iBAAQ,C;UAqmKF,mB;UAAA,kB;UAAA,kB;UAAAd,0D;YACI,cA6X+B,SA7XjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA0XP,gC;O;KAjBJ,C;+FAoBA,yB;MA1XA,gD;MAAA,gE;MApMI,0D;MA89KJ,gD;QAIbW,6B;;UAxXO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OA2XI,OA3XJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA0XIB,OA1XkB,C;UAA5C,arBp1RO,W;UqBq1RP,kBAyX0B,O;UAxXZ,OAvnKE,YAAR,iBAAQ,C;UAunKF,mB;UAAA,kB;UAAA,kB;UAAAd,0D;YACI,cAuX+B,SAvXjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAoXP,gC;O;KAjBJ,C;+FAoBA,yB;MApXA,gD;MAAA,gE;MAtmKI,0D;MA0+KJ,gD;QAIbW,6B;;UAIXO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OAqXI,OA rXJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAoXIB,OA pXkB,C;UAA5C,arB92RO,W;UqB+2RP,kBA mX0B,O;UAIXZ,OAzoKE,YAAR,iBAAQ,C;UAyoKF,mB;UAAA,kB;UAAA,kB;UAAAd,0D;YACI,cAiX+B,SAjXjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA8WP,gC;O;KAjBJ,C;+FAoBA,yB;MA9WA,gD;MAAA,gE;MAxoKI,0D;MAs/KJ,gD;QAIbW,6B;;UA5WO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OA+Wl,OA/WJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA8WIB,OA9WkB,C;UAA5C,arBx4RO,W;UqBy4RP,kBA6W0B,O;UA5WZ,OA3pKE,YAAR,iBAAQ,C;UA2pKF,mB;UAAA,kB;UAAA,kB;UAAAd,0D;YACI,cA2W+B,SA3WjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAwWP,gC;O;KAjBJ,C;mFAoBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,MnCvWsiD,SmCuWsjD,GnCvW2D,KAAK,GmCuWszD,SAAS,OAAT,CnCvWsoE,KAAX,IAAf,C;;QmCyWsrD,OAAO,G;O;KAbX,C;mFAGBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,MnCvXsiD,SmCuXsjD,GnCvX2D,KAAK,GmCuXszD,SAAS,OAAT,CnCvXsoE,KAAX,IAAf,C;;QmCyXsrD,OAAO,G;O;KAbX,C;mFAGBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,MnCvySiD,SmCuySjD,GnCvy2D,KAAK,GmCuySzD,SAAS,OAAT,CnCvySoE,KAAX,IAAf,C;;QmCyySrD,OAAO,G;O;KAbX,C;mFAGBA,yB;MAAA,wB;MAAA,sC;Q



P,sBAAK,CAAL,CArDO,EAAnB,KAqDqB,CAAM,CAAN,CArDF,CAqDrB,C;;MArDT,OAuDO,I;K;IApDX,kC;  
MAkEI,WpBtoTO,MAAO,KoBsoTG,cpBtoTH,EoB6kTH,KAyDkB,OpBtoTf,C;MoBuoTd,WAAW,iBAaA,IAAb,  
C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA5DqB,GA4DP,sBAAK,CAAL,CA5DO,EAAnB,KA4  
DqB,CAAM,CAAN,CA5DF,CA4DrB,C;;MA5DT,OA8DO,I;K;IA3DX,kC;MAyEI,WpBzpTO,MAAO,KoBypTG,c  
pBzpTH,EoBylTH,KAgEkB,OpBzpTf,C;MoB0pTd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,  
M;QACI,IAAK,WAnEqB,GAmEP,sBAAK,CAAL,CAnEO,EAAnB,KAmEqB,CAAM,CAAN,CAnEF,CAMErB,  
C;;MANET,OAqEO,I;K;IAIEX,kC;MAGFI,WpB5qTO,MAAO,KoB4qTG,cpB5qTH,EoBqmTH,KAuEkB,OpB5qTf  
,C;MoB6qTd,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA1EqB,GA0EP,s  
BAAK,CAAL,CA1EO,EAAnB,KA0EqB,CAAM,CAAN,CA1EF,CA0ErB,C;;MA1ET,OA4EO,I;K;+EAzEX,yB;M  
AAA,gE;MpB9mTA,iB;MoB8mTA,8C;QAWI,WpBnnTO,MAAO,KoBmnTG,cpBnnTH,EoBmnTS,KAAM,OpBn  
nTf,C;QoBonTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBA  
AK,CAAL,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA  
,gE;MpBjoTA,iB;MoBioTA,8C;QAWI,WpBtoTO,MAAO,KoBsoTG,cpBtoTH,EoBsoTS,KAAM,OpBtoTf,C;QoB  
uoTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL  
,CAAV,EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBp  
pTA,iB;MoBopTA,8C;QAWI,WpBzpTO,MAAO,KoBypTG,cpBzpTH,EoBypTS,KAAM,OpBzpTf,C;QoB0pTd,W  
AAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,  
EAAMB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBvqTA,iB;  
MoBuqTA,8C;QAWI,WpB5qTO,MAAO,KoB4qTG,cpB5qTH,EoB4qTS,KAAM,OpB5qTf,C;QoB6qTd,WAAW,e  
AAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAM  
B,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;IAmBA,kC;MA8DoB,gB;MAHhB,gBAAGB,c;  
MACHB,WAAW,iBpBhvTJ,MAAO,KoBgvTsB,wBAnDzB,KAmDyB,EAawB,EAaxB,CpBhvTtB,EoBgvTmD,S  
pBhvTnD,CoBgvTH,C;MACX,QAAQ,C;MACQ,OArDL,KAqDK,W;MAAhB,OAGB,cAAhB,C;QAAGB,yB;QA  
CZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAvDqB,GAuDP,uBAAK,UAAAL,EAAK,kBAAL,UAvDO,  
EAuDI,OAxDJ,CAuDrB,C;;MAvDT,OAyDO,I;K;IAtDX,kC;MAuEoB,gB;MAHhB,gBAAGB,c;MACHB,WAAW,i  
BpBrwTJ,MAAO,KoBqwTsB,wBA5DzB,KA4DyB,EAawB,EAaxB,CpBrwTtB,EoBqwTmD,SpBrwTnD,CoBqw  
TH,C;MACX,QAAQ,C;MACQ,OA9DL,KA8DK,W;MAAhB,OAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,KAAK,  
SAAT,C;UAAoB,K;QACpB,IAAK,WAhEqB,GAGEP,uBAAK,UAAAL,EAAK,kBAAL,UAhEO,EAGeI,OAHEJ,CA  
gErB,C;;MAhET,OAkEO,I;K;IA/DX,kC;MAGFoB,gB;MAHhB,gBAAGB,c;MACHB,WAAW,iBpB1xTJ,MAAO,K  
oB0xTsB,wBArEzB,KAqEyB,EAawB,EAaxB,CpB1xTtB,EoB0xTmD,SpB1xTnD,CoB0xTH,C;MACX,QAAQ,C  
;MACQ,OAvEL,KAuEK,W;MAAhB,OAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QA  
CpB,IAAK,WazEqB,GAYEP,uBAAK,UAAAL,EAAK,kBAAL,UAZEO,EAYEI,OAzEJ,CAYErB,C;;MAzET,OA2E  
O,I;K;IAxEX,kC;MAyFoB,gB;MAHhB,gBAAGB,c;MACHB,WAAW,iBpB/yTJ,MAAO,KoB+yTsB,wBA9EzB,K  
A8EyB,EAawB,EAaxB,CpB/yTtB,EoB+yTmD,SpB/yTnD,CoB+yTH,C;MACX,QAAQ,C;MACQ,OAhFL,KAGF  
K,W;MAAhB,OAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAlFqB,G  
AkFP,uBAAK,UAAAL,EAAK,kBAAL,UAlFO,EAKFl,OAIFJ,CAkFrB,C;;MAIFT,OAoFO,I;K;+EAjFX,yB;MAAA,  
kF;MAAA,gE;MpB1uTA,iB;MoB0uTA,8C;QAcOB,UAEY,M;QAL5B,gBAAGB,c;QChB,WAAW,epBhvTJ,MA  
AO,KoBgvTsB,wBAAN,KAAM,EAawB,EAaxB,CpBhvTtB,EoBgvTmD,SpBhvTnD,CoBgvTH,C;QACX,QAAQ  
,C;QACQ,uB;QAAhB,OAGB,cAAhB,C;UAGB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,W  
AAI,UAAU,uBAAK,UAAAL,EAAK,kBAAL,UAAV,EAAqB,OAARb,CAAJ,C;;QAET,OAAO,I;O;KAIBX,C;+EAq  
BA,yB;MAAA,kF;MAAA,gE;MpB/vTA,iB;MoB+vTA,8C;QAcOB,UAEY,M;QAL5B,gBAAGB,c;QChB,WAAW  
,epBrwTJ,MAAO,KoBqwTsB,wBAAN,KAAM,EAawB,EAaxB,CpBrwTtB,EoBqwTmD,SpBrwTnD,CoBqwTH,  
C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAGB,cAAhB,C;UAGB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;U  
ACpB,IAAK,WAAI,UAAU,uBAAK,UAAAL,EAAK,kBAAL,UAAV,EAAqB,OAARb,CAAJ,C;;QAET,OAAO,I;O;  
KAIBX,C;+EAqBA,yB;MAAA,kF;MAAA,gE;MpBpxTA,iB;MoBoxTA,8C;QAcOB,UAEY,M;QAL5B,gBAAGB,c;  
QChB,WAAW,epB1xTJ,MAAO,KoB0xTsB,wBAAN,KAAM,EAawB,EAaxB,CpB1xTtB,EoB0xTmD,SpB1xT  
nD,CoB0xTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAGB,cAAhB,C;UAGB,yB;UACZ,IAAI,KAAK,SAAT,  
C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAAL,EAAK,kBAAL,UAAV,EAAqB,OAARb,CAAJ,C;;QA

ET,OAAO,I;O;KAIBX,C;8EAqBA,yB;MAAA,kF;MAAA,gE;MpBzyTA,iB;MoByyTA,8C;QAcoB,UAEY,M;QAL5B,gBAAgB,c;QACbB,WAAW,epB/yTJ,MAAO,KoB+yTsB,wBAAN,KAAM,EAaWb,EAaXb,CpB/yTtB,EoB+yTmD,SpB/yTnD,CoB+yTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAIBX,C;IAqBA,kC;MA2DI,WpBn3TO,MAAO,KoBm3TG,cpBn3TH,EoBi0TH,KAKdKb,KpBn3Tf,C;MoBo3Td,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WArDqB,GAqDP,sBAAK,CAAL,CArDO,EAAnB,KAqDqB,aAAM,CAAN,CArDF,CAqDrB,C;;MArDT,OAUdO,I;K;IApDX,kC;MAkEI,WpBt4TO,MAAO,KoBs4TG,cpBt4TH,EoB60TH,KAyDkB,KpBt4Tf,C;MoBu4Td,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA5DqB,GA4DP,sBAAK,CAAL,CA5DO,EAAnB,KA4DqB,aAAM,CAAN,CA5DF,CA4DrB,C;;MA5DT,OAA8DO,I;K;IA3DX,kC;MAyEI,WpBz5TO,MAAO,KoBy5TG,cpBz5TH,EoBy1TH,KAgEkB,KpBz5Tf,C;MoB05Td,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WAnEqB,GAmEP,sBAAK,CAAL,CAnEO,EAAnB,KAmEqB,aAAM,CAAN,CAnEF,CAMerB,C;;MAnET,OAAqEO,I;K;IAIEX,kC;MAGFI,WpB56TO,MAAO,KoB46TG,cpB56TH,EoBq2TH,KAuEkB,KpB56Tf,C;MoB66Td,WAAW,iBAaA,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAIB,M;QACI,IAAK,WA1EqB,GA0EP,sBAAK,CAAL,CA1EO,EAAnB,KA0EqB,aAAM,CAAN,CA1EF,CA0ErB,C;;MA1ET,OAA4EO,I;K;+EAzEX,yB;MAAA,gE;MpB92TA,iB;MoB82TA,8C;QAWI,WpBn3TO,MAAO,KoBm3TG,cpBn3TH,EoBm3TS,KAAM,KpBn3Tf,C;QoBo3Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBj4TA,iB;MoBi4TA,8C;QAWI,WpBt4TO,MAAO,KoBs4TG,cpBt4TH,EoBs4TS,KAAM,KpBt4Tf,C;QoBu4Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBp5TA,iB;MoBo5TA,8C;QAWI,WpBz5TO,MAAO,KoBy5TG,cpBz5TH,EoBy5TS,KAAM,KpBz5Tf,C;QoB05Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBv6TA,iB;MoBu6TA,8C;QAWI,WpB56TO,MAAO,KoB46TG,cpB56TH,EoB46TS,KAAM,KpB56Tf,C;QoB66Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;IAmBA,2B;MAQoB,Q;MADhB,UAAgB,W;MACHb,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,MnCjnUiD,SmCinUjD,GnCjnU2D,KAAK,GmCinUzD,OnCjnUoE,KAAx,IAAf,C;;MmCmnUrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MACjB,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,MnB5nUmD,UmB4nUnD,GnB5nU8D,KAAK,KmB4nU5D,OnB5nUuE,KAAx,CAAhB,C;;MmB8nUvD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACHb,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,MnC7oUiD,SmC6oUjD,GnC7oU2D,KAAK,GAAW,CD2O5C,SoCk6TxB,OpCl6TkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;MmC+oUrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACHb,wBAAgB,SAAhB,gB;QAAGb,cAAA,SAAhB,M;QACI,MnC3pUiD,SmC2pUjD,GnC3pU2D,KAAK,GAAW,CC4O5C,SkC+6TxB,OIC/6TkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MmC6pUrD,OAAO,G;K;+EAGX,yB;MAAA,0C;MnCx2TA,6B;MmCw2TA,4B;QAOI,OnCr2TmC,cmCq2TpB,IAAR,iBAAQ,CnCr2ToB,C;O;KmC81TvC,C;+EAUA,yB;MAAA,0C;MnBn2TA,+B;MmBm2TA,4B;QAOI,OnBh2TsC,emBg2TvB,IAAR,iBAAQ,CnBh2TuB,C;O;KmBy1T1C,C;+EAUA,yB;MAAA,sC;MnC53TA,6B;MmC43TA,iBAOiB,yB;QpCz9Tb,6B;eoCy9Ta,c;UAAE,OpCh9ToB,coCg9TpB,EpCh9T8B,KAAL,GAAiB,GAAtB,C;S;OoCg9TtB,C;MAPjB,4B;QA7iBoB,Q;QADhB,UnCp0SmC,cmCo0SnB,CnCp0SmB,C;QmCq0SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCxoTiD,cmCwoTjD,GnCxoT2D,KAAK,GAAW,CD2O5C,coC65Sf,OpC75SyB,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;QmC2rUrD,OAJjBO,G;O;KA0iBX,C;+EAUA,yB;MAAA,sC;MnCt4TA,6B;MmCs4TA,iBAOiB,yB;QICl+Tb,6B;ekCk+Ta,c;UAAE,OICz9ToB,ckCy9TpB,EICz9T8B,KAAAL,GAAiB,KAAtB,C;S;OkCy9TtB,C;MAPjB,4B;QApiBoB,Q;QADhB,UnCv1SmC,cmCu1SnB,CnCv1SmB,C;QmCw1SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnC3pTiD,cmC2pTjD,GnC3pT2D,KAAK,GAAW,CC4O5C,ckC+6Sf,OIC/6SyB,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;QmCqsUrD,OAXiBO,G;O;KAiIBX,C;IC3vUA,mC;MAQoB,UACL,M;MAHX,aAAa,gBAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAGb,yB;QACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAIB,C;;MACJ,OAAO,M;K;IAGX,

kC;MAQoB,UACL,M;MAHX,aAAa,eAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QA  
AgB,yB;QACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAIB,C;;MACJ,OAAO,M;K;IAGX,mC;MAQoB,UACL  
,M;MAHX,aAAa,gBAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,o  
BAAO,cAAP,EAAO,sBAAP,WAAkB,OAAIB,C;;MACJ,OAAO,M;K;IAGX,oC;MAQoB,UACL,M;MAHX,aAAa,  
iBAAy,cAAZ,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,oBAAO,cAAP,EAA  
O,sBAAP,WAAkB,OAAIB,C;;MACJ,OAAO,M;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB  
,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MpCAiD,SoCAjD,GpCA2D,KAAK,GoCAzD,OpCAoE,KAAx,IAAf,C;;M  
oCErD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB  
;QACZ,MpBXmD,UoBwnD,GpBX8D,KAAK,KoBW5D,OpBXuE,KAAx,CAAhB,C;;MoBavD,OAAO,G;K;IAG  
X,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MpC5BiD,SoC4  
BjD,GpC5B2D,KAAK,GAAW,CD2O5C,SqC/MxB,OrC+MkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;  
MoC8BrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB  
,yB;QACZ,MpC1CiD,SoC0CjD,GpC1C2D,KAAK,GAAW,CC4O5C,SmClMxB,OnCkMkC,KAAL,GAAiB,KAAt  
B,CD5O4C,MAAX,IAAf,C;;MoC4CrD,OAAO,G;K;IC3GX,wB;MAMI,OrCuCkE,YqCvCvD,CrCuCwE,KAAjB,E  
qCvCID,CrCuC+E,KAA7B,CqCvCvD,KAAJ,GAAY,CAAZ,GAAMb,C;K;IAG9B,wB;MAMI,OrBsCmE,aqBtCx  
D,CrBsC0E,KAAiB,EqBtCnD,CrBsCiF,KAA9B,CqBtCxD,KAAJ,GAAY,CAAZ,GAAMb,C;K;IAG9B,wB;MAMI,  
OtCKgF,0BsCLrE,CtCgP2B,KAAL,GAAiB,GA3O8B,EsCLhE,CtCgPsB,KAAL,GAAiB,GA3O8B,CsCLrE,KAAJ,  
GAAY,CAAZ,GAAMb,C;K;IAG9B,wB;MAMI,OpClIF,0BoCjE,CpCwO2B,KAAL,GAAiB,KApO+B,EoCjJE,Cp  
CwOsB,KAAL,GAAiB,KApO+B,CoCjE,KAAJ,GAAY,CAAZ,GAAMb,C;K;mFAG9B,yB;MAAA,8C;MAAA,0  
B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8  
C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,y  
B;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C  
;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;  
O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM  
,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,  
OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;M  
AOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,  
CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU  
,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,wB;MAMI,OrCjFkE,YqCiFvD  
,CrCjFwE,KAAjB,EqCiFID,CrCjF+E,KAA7B,CqCiFvD,KAAJ,GAAY,CAAZ,GAAMb,C;K;IAG9B,wB;MAMI,O  
rBIFmE,aqBkFxD,CrBIF0E,KAAiB,EqBkFnD,CrBIFiF,KAA9B,CqBkFxD,KAAJ,GAAY,CAAZ,GAAMb,C;K;IA  
G9B,wB;MAMI,OtCnHgF,0BsCmHrE,CtCwH2B,KAAL,GAAiB,GA3O8B,EsCmHhE,CtCwHsB,KAAL,GAAiB,  
GA3O8B,CsCmHrE,KAAJ,GAAY,CAAZ,GAAMb,C;K;IAG9B,wB;MAMI,OpCpHiF,0BoCoHtE,CpCgH2B,KAA  
L,GAAiB,KApO+B,EoCoHjE,CpCgHsB,KAAL,GAAiB,KApO+B,CoCoHtE,KAAJ,GAAY,CAAZ,GAAMb,C;K;  
mFAG9B,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;  
O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAA  
T,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,  
EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MA  
AM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,  
cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;  
MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,  
C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;Q  
AAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MAC  
A,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K  
;gFC7OX,yB;MAAA,mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;gFAYA,yB;MAAA,  
mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYA,sC;;QASQ,OAAc,WAAP,MAAO,E  
AAS,SAAT,C;;QACHB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QASQ,OAAc,YA  
AP,MAAO,EAAU,SAAV,C;;QACHB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;M

AAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,WAAP,MAAO,EAAS,SAAT,C;K;IAGIB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,YAAP,MAAO,EAAU,SAAV,C;K;oFAGIB,8B;MASI,OAAO,WAAW,IAAX,IAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;MASI,OAAO,WAAW,IAAX,IAAmB,2BAAS,OAAT,C;K;IAG9B,uC;MAMI,OAAO,2BvC4K4B,SuC5KnB,KvC4K6B,KAAL,GAAiB,GAAtB,CuC5K5B,C;K;IAGX,uC;MAMI,OAAO,2BvC6K8B,UAAW,oBuC7KhC,KvC6K2B,KAAL,CAAL,UAAN,CuC7K9B,C;K;IAGX,uC;MAMI,OAAO,2BtCwL8B,UAAW,oBsCxLhC,KtCwL2B,KAAL,CAAL,iBAAN,CsCxL9B,C;K;IAGX,uC;MAMY,Q;MAAD,cAAC,OtBqF4C,UsBrF5C,KtBqFkD,yBsBrFxC,EtBqFwC,CAAN,CsBrF7C,wBAA8B,2BAA9B,Q;MAAA,W;QAAqC,oCtCoPR,SsCpPiB,KtB6KIB,KhBuEW,QAAV,CsCpPQ,C;OAA5C,a;K;IAGJ,uC;MAMI,OAAO,2BrCyI4B,SqCzInB,KrCyI6B,KAAL,GAAiB,KAAtB,CqCzI5B,C;K;IAGX,uC;MAMI,OAAO,2BrC0I8B,UAAW,oBqC1IhC,KrC0I2B,KAAL,CAAL,YAAN,CqC1I9B,C;K;IAGX,kC;MASI,OAAO,uCAAgB,yBvCmHY,SuCnHI,SvCmHM,KAAL,GAAiB,GAAtB,CuCnHZ,EvCmHY,SuCnHmB,EvCmHT,KAAL,GAAiB,GAAtB,CuCnHZ,EAA4C,EAA5C,C;K;IAG3B,kC;MASI,OAAO,uCAAgB,yBAAgB,SAAhB,EAA5B,EAAtB,EAA0B,EAA1B,C;K;IAG3B,kC;MASI,OAAO,wCAAiB,yBAAgB,SAAhB,EAA5B,EAAtB,M;K;IAG5B,kC;MASI,OAAO,uCAAgB,yBrCgFY,SqChFI,SrCgFM,KAAL,GAAiB,KAAtB,CqChFZ,ErCgFY,SqChFmB,ErCgFT,KAAL,GAAiB,KAAtB,CqChFZ,EAA4C,EAA5C,C;K;IAG3B,gC;MAMI,OAAO,uCAAgB,yBAAgB,cAAhB,EAA5B,eAAtB,EAA6B,CAAC,cAAD,IAA7B,C;K;IAG3B,gC;MAMI,OAAO,wCAAiB,yBAAgB,cAAhB,EAA5B,eAAtB,EAA8B,cAAD,aAA7B,C;K;IAG5B,iC;MAMI,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAmB,IAAnB,GA6B,CAAC,IAAD,IAA1D,C;K;IAG3B,iC;MAMI,oBAAoB,kBAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,wCAAiB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,cAAY,CAAhB,GAAmB,IAAnB,GAA8B,IAAD,aAA1D,C;K;IAG5B,iC;MAQI,IvC/OgF,0BuC+O5E,EvCJkC,KAAL,GAAiB,GA3O8B,EuC+Ote,6BAAM,UvCJsB,KAAL,GAAiB,GA3O8B,CuC+O5E,KAAJ,C;QAA2B,OAAO,iCAAU,M;MACHC,WvC6BuB,SuC7B5B,SvC6BsC,KAAL,GAAiB,GAAtB,C;MuC7BV,YAAK,W;MAA9B,OtCjD6D,oBAhJP,SAAU,CD8N7B,SuC7BV,EvC6BoB,KAAL,GAAiB,GAAtB,CC9N6B,MAAK,GDAK,KCAO,KAAZ,IAAf,CAGJO,C;K;IsCoDjE,iC;MAQI,ItC3OkE,YsC2O9D,EtC3O+E,KAAjB,EsC2OxD,4BAAK,UtC3OgF,KAA7B,CsC2O9D,KAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OtC7D6D,csC6DtD,StC7DsD,EAhJP,SsC6MtC,EtC7MgD,KAAL,GAAY,CsC6M5D,WtC7M4D,MAAZ,IAAf,CAGJO,C;K;IsCgEjE,iC;MAQI,ItB/OmE,asB+O/D,EtB/OiF,KAAIB,EsB+OzD,6BAAM,UtB/OiF,KAA9B,CsB+O/D,KAAJ,C;QAA2B,OAAO,kCAAW,M;MAC7C,OtBzE+D,iBsByExD,StBzEwD,EA7IP,UsBsNx,C,EtBtNmD,KAAL,UAAy,ChByP/C,UAAW,oBAAL,CsCnCb,WtCmCsB,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,CA6IO,C;K;IsB4EnE,iC;MAQI,IrC3QiF,0BqC2Q7E,ErCvCkC,KAAL,GAAiB,KApO+B,EqC2QvE,8BAAO,UrCvCqB,KAAL,GAAiB,KApO+B,CqC2Q7E,KAAJ,C;QAA4B,OAAO,iCAAU,M;MACjC,WrcNuB,SqCM5B,SrCnCsC,KAAL,GAAiB,KAAtB,C;MqCMV,YAAK,W;MAA9B,OtCrF6D,oBAhJP,SAAU,CC+N7B,SqCMV,ErCnOB,KAAAL,GAAiB,KAAtB,CD/N6B,MAAK,GCAK,KDAO,KAAZ,IAAf,CAGJO,C;K;IsCwFjE,kD;MAUI,OtCjRkE,YsCiRvD,StCjRwE,KAAjB,EsCiRhD,YtCjR6E,KAA7B,CsCiRvD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OtBtRmE,asBsRxD,StBtR0E,KAAIB,EsBsRjD,YtBtR+E,KAA9B,CsBsRxD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OvC3TgF,0BuC2TrE,SvChF2B,KAAL,GAAiB,GA3O8B,EuC2T9D,YvChFoB,KAAL,GAAiB,GA3O8B,CuC2TrE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OrChUiF,0BqCgUtE,SrC5F2B,KAAAL,GAAiB,KApO+B,EqCgU/D,YrC5FoB,KAAL,GAAiB,KApO+B,CqCgUtE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OtCrUkE,YsCqUvD,StCrUwE,KAAjB,EsCqUhD,YtCrU6E,KAA7B,CsCqUvD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OtB1UmE,asB0UxD,StB1U0E,KAAIB,EsB0UjD,YtB1U+E,KAA9B,CsB0UxD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OvC/WgF,0BuC+WrE,SvCpI2B,KAAL,GAAiB,GA3O8B,EuC+W9D,YvCpIoB,KAAL,GAAiB,GA3O8B,CuC+WrE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OrCpXiF,0BqCoXtE,SrChJ2B,KAAL,GAAiB,KApO+B,EqCoX/D,YrChJoB,KAAL,GAAiB,KApO+B,CqCoXtE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,4D;MAUI,ItCzXkE,YsCyX9D,YtCzX+E,KAAjB,EsCyX/C,YtCzX4E,KAA7B,CsCyX9D,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAZB,C;MACvC,ItC1XkE,YsC0X9D,StC1X+E,KAAjB,EsC0XvD,YtC1XoF,KAA7B,CsC0X9D,IAAJ,C;QAAyB,OAAO,Y;MACHC,ItC3XkE,YsC2X9D,StC3X+E,KAAjB,EsC2XvD,YtC3XoF,KAA7B,CsC2X9D,IAAJ,C;QAAyB,OAAO,Y;MA



ChC,OAAO,S;K;IAGX,4D;MAUI,ItBjYmE,asBiY/D,YtBjYiF,KAAIB,EsBiYhD,YtBjY8E,KAA9B,CsBiY/D,IAA  
J,C;QAAiC,MAAM,gCAAYB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,ItBIYmE,asBkY/D,StBIYiF  
,KAAIB,EsBkYxD,YtBIYsF,KAA9B,CsBkY/D,IAAJ,C;QAAyB,OAAO,Y;MACHC,ItBnYmE,asBmY/D,StBnYiF,  
KAAIB,EsBmYxD,YtBnYsF,KAA9B,CsBmY/D,IAAJ,C;QAAyB,OAAO,Y;MACHC,OAAO,S;K;IAGX,4D;MAU  
I,IvCzagF,0BuCya5E,YvC9LkC,KAAL,GAAiB,GA3O8B,EuCya7D,YvC9LmB,KAAL,GAAiB,GA3O8B,CuCya5  
E,IAAJ,C;QAAiC,MAAM,gCAAYB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IvC1agF,0BuC0a5E,  
SvC/LkC,KAAL,GAAiB,GA3O8B,EuC0arE,YvC/L2B,KAAL,GAAiB,GA3O8B,CuC0a5E,IAAJ,C;QAAyB,OAA  
O,Y;MACHC,IvC3agF,0BuC2a5E,SvChMkC,KAAL,GAAiB,GA3O8B,EuC2arE,YvChM2B,KAAL,GAAiB,GA3O  
8B,CuC2a5E,IAAJ,C;QAAyB,OAAO,Y;MACHC,OAAO,S;K;IAGX,4D;MAUI,IrCjbiF,0BqCib7E,YrC7MkC,KA  
AL,GAAiB,KApO+B,EqCib9D,YrC7MmB,KAAL,GAAiB,KApO+B,CqCib7E,IAAJ,C;QAAiC,MAAM,gCAAYB,  
oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IrClbiF,0BqCkb7E,SrC9MkC,KAAL,GAAiB,KApO+B,E  
qCkb7E,YrC9M2B,KAAL,GAAiB,KApO+B,CqCkb7E,IAAJ,C;QAAyB,OAAO,Y;MACHC,IrCnbiF,0BqCmb7E,Sr  
C/MkC,KAAL,GAAiB,KApO+B,EqCmb7E,YrC/M2B,KAAL,GAAiB,KApO+B,CqCmb7E,IAAJ,C;QAAyB,OAA  
O,Y;MACHC,OAAO,S;K;IAGX,uC;MAcW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAy,WAAL,SAAK,EAaE,KAAf,C  
;OAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAYB,4CAAyC,KAAzC,MAAzB,C;MAEvB,ItC9b8D,YsC8  
b9D,StC9b+E,KAAjB,EsC8bvD,KAAM,MtC9b8E,KAA7B,CsC8b9D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItC/b  
8D,YsC+b9D,StC/b+E,KAAjB,EsC+bvD,KAAM,atC/b8E,KAA7B,CsC+b9D,K;UAAmC,OAAN,KAAM,a;;UAC3  
B,gB;;MAHZ,W;K;IAOJ,uC;MAcW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAy,WAAL,SAAK,EAAGB,KAAhB,C;O  
AEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAYB,4CAAyC,KAAzC,MAAzB,C;MAEvB,ItB3c+D,asB2c/D  
,StB3ciF,KAAIB,EsB2cxD,KAAM,MtB3cgF,KAA9B,CsB2c/D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItB5c+D,as  
B4c/D,StB5ciF,KAAIB,EsB4cxD,KAAM,atB5cgF,KAA9B,CsB4c/D,K;UAAmC,OAAN,KAAM,a;;UAC3B,gB;;M  
AHZ,W;K;IC/fj,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,M  
vCoDiD,SuCPdDjD,GvCoD2D,KAAK,GuCpDzD,OvCoDoE,KAAX,IAAf,C;;MuClDrD,OAAO,G;K;IAGX,2B;MA  
UoB,Q;MADhB,UAAiB,2B;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvBuCmD,UuBvCnD,Gv  
BuC8D,KAAK,KuBvC5D,OvBuCuE,KAAX,CAAhB,C;;MuBrCvD,OAAO,G;K;IAGX,2B;MAUoB,Q;MADhB,U  
AAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvCoBiD,SuCPBjD,GvCoB2D,KAAK,GA  
AW,CD2O5C,SwC/PxB,OxC+PkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;MuClBrD,OAAO,G;K;IAG  
X,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvClid,SuCljD  
,GvClid,KAAK,GAAW,CC4O5C,SsChPxB,OtCgPkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MuCFr  
D,OAAO,G;K;;;ICuCP,iD;MAAA,qE;MAAgB,4B;MANpB,uC;MAMI,Y;K;IACA,4D;MAAA,qE;MAAgC,wBA  
AM,OAAN,Q;MAPpC,uC;MAOI,Y;K;IACA,mE;MAAA,qE;MAAmD,6BAAM,OAAN,EAaE,KAAf,C;MARvD,u  
C;MAQI,Y;K;IACA,0D;MAAA,qE;MAAiC,wBAAM,KAAN,Q;MATrC,uC;MASI,Y;K;ICxGJ,gC;K;;;ICuBoC,w  
C;8BAAsC,O;K;;;yCC0rE,6B;MASI,MAAM,yB;K;;;0CAyDV,sB;MASI,OAAO,I;K;;;;  
;ICnYf,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,wB;K;kCAEI,Y;MAA4B,mC;K;;IAMhC,yB;K;mCAEI,Y  
;MAA4B,uB;K;;IAMhC,uB;K;iCAEI,Y;MAA4B,qB;K;;IAMhC,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,yB;K;mC  
AEI,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAEI,Y;MAA4B,wB;K;;IAMhC,2B;K;qCAEI,Y;MAA4B,yB;K;;ICtDM,oD  
;MAA2C,uB;MAAjB,gB;MAC5D,sBAAGC,InBkCU,I;MmBjC1C,iBAAmC,YAAO,CAAX,GAAC,SAAS,IAAvB,  
GAAiC,SAAS,I;MACzE,cAA4B,cAA5B,GAAqC,KnBgCK,ImBhC1C,GAAqD,mB;K;gDAErD,Y;MAAkC,qB;K;i  
DAEIC,Y;MACI,YAAy,W;MACZ,IAAI,UAAS,mBAAb,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3  
B,iBAAU,K;;QAGV,4BAAQ,SAAR,I;;MAEJ,OAAa,OAAN,KAAM,C;K;;IAQgB,mD;MAAyC,sB;MAAjB,gB;M  
ACzD,sBAAGC,I;MACHC,iBAAmC,YAAO,CAAX,GAAC,SAAS,IAAvB,GAAiC,SAAS,I;MACzE,cAA4B,cAAJ,  
GAAa,KAAb,GAAwB,mB;K;+CAEhD,Y;MAAkC,qB;K;+CAEIC,Y;MACI,YAAy,W;MACZ,IAAI,UAAS,mBA  
Ab,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;QAGV,4BAAQ,SAAR,I;;MAEJ,OAAO,  
K;K;;IAQuB,oD;MAA4C,uB;MAAIB,gB;MAC5D,sBAAiC,I;MACjC,iBAAmC,uBAAO,CAAX,GAAC,sBAAS,IA  
AT,MAAd,GAAiC,sBAAS,IAAT,M;MACHC,cAA6B,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAEjD,Y;MAAkC,qB  
;K;iDAEIC,Y;MACI,YAAy,W;MACZ,IAAI,cAAS,mBAAT,CAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,  
6B;QAC3B,iBAAU,K;;QAGV,8BAAQ,SAAR,C;;MAEJ,OAAO,K;K;;IC9DX,oD;MA6CA,uC;MATCI,IAAI,SA  
Q,CAAZ,C;QAAe,MAAa,gCAAYB,wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAYB,wEAA

zB,C;MAG5C,aAGyB,K;MAEzB,YAGuF,OAA/D,0BAA0B,KpBcR,IoBdlB,EAAc,YpBcpB,IoBdlB,EAAyD,IAAzD,CAA+D,C;MAEvF,YAGuB,I;K;yCAEvB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAExC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAAtB,GAAgC,aAAQ,S;K;uCAE7E,iB;MACI,iDA A6B,kBAaA,KAAM,UAAAnB,KAC7B,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KAAtC,IAA8C,cAAQ,KAA M,KAD/B,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,OAkK,UpBRG,IoBQR,UA AkB,SpBRV,IoBQR,KAAN,SAAqC,SAArC,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAc,oBAAE,UAAf ,+BAAU,SAAV,eAAqB,SAAnC,GAA8C,oBAAE,UAAf,qCAAqB,SAAhB,gBAA4B,CAAC,SAAD,IAA5B,C;K;I AEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAc,IAAtC,C;K;;;IAT/F,iD;M AAA,gD;QAAA,+B;OAAA,yC;K;;IAiBA,mD;MA6CA,sC;MatCI,IAAI,SAAQ,CAAZ,C;QAAe,MAAa,gCAAyB, wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEAAzB,C;MAG5C,aAGwB,K;MAExB,Y AGuB,0BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAEvB,YAGuB,I;K;wCAEvB,Y;MAAuC,kCAAuB, UAAvB,EAA8B,SAA9B,EAAoC,SAAPC,C;K;uCAEvC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAAtB,G AAqC,aAAQ,S;K;sCAE7E,iB;MACI,gDAA4B,kBAaA,KAAM,UAAAnB,KAC5B,eAAS,KAAM,MAAf,IAAwB,cA AQ,KAAM,KAAtC,IAA8C,cAAQ,KAAM,KADhC,CAA5B,C;K;wCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GA AwB,OAAM,MAAK,UAAAL,QAAa,SAAb,IAAN,SAA2B,SAA3B,I;K;wCAE5B,Y;MAAkC,OAAI,YAAO,CAAX, GAAgB,UAAf,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAf,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B, C;K;IAEhF,oC;MAAA,wC;K;iEACI,sC;MAQwF,0BAAe,UAAf,EAA2B,QAA3B,EAAqC,IAArC,C;K;;;IAT5F,gD ;MAAA,+C;QAAA,8B;OAAA,wC;K;;IAiBA,oD;MA6CA,uC;MatCI,IAAI,gBAAJ,C;QAAgB,MAAa,gCAAyB,w BAAzB,C;MAC7B,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAyB,yEAAzB,C;MAG7C,aAGyB,K;MAEzB,YAGwB,4B AA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YAGwB,I;K;yCAExB,Y;MAAwC,mCAAwB,UAAxB, EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAExC,Y;MAMqC,OAAI,uBAAO,CAAX,GAAc,2BAAQ,SAAR,KAA d,GAAgC,2BAAQ,SAAR,K;K;uCAErE,iB;MACI,iDAA6B,kBAaA,KAAM,UAAAnB,KAC7B,mBAAS,KAAM,MAA f,KAAwB,kBAAQ,KAAM,KAA d,CAAxB,IAA8C,kBAAQ,KAAM,KAA d,CADjB,CAA7B,C;K;yCAGJ,Y;MACI, OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,iCAAM,eAAW,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BA AU,EA AV,CAAV,CAAPC,CAAN,MAAuE,cAAU,6BAAU,EA AV,CAAV,CAA vE,CAAiG,Q;K;yCAE7H,Y;MA AkC,OAAI,uBAAO,CAAX,GAAgB,UAAf,qBAAU,SAAV,yBAAqB,SAArB,WAA d,GAAgD,UAAf,2BAAgB,S AAhB,yBAA6B,SAAD,AA5B,W;K;IAEhF,qC;MAAA,yC;K;kEACI,sC;MAQ4F,2BAAgB,UAAhB,EAA4B,QA A5B,EAAc,IAAtC,C;K;;;IAThG,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;;6CCIKa,iB;MAGkD,+BAAS,UAA T,UAAkB,wBAAS,iBAAT,M;K;oCAEpE,Y;MAKgC,oCAAQ,iBAAR,K;K;;;I7CpBd,wC;MA sBIB,iC;MatBsD,2BA AgB,KAAhB,EAAuB,YAAvB,EAAqC,CAArC,C;K;kFAC7B,Y;MAAQ,8B;K;yFACD,Y;MAAQ,6B;K;2CAExC,i B;MAA8C,qBAAS,KAAT,IAAkB,SAAS,S;K;kCAEzE,Y;MAKkC,oBAAQ,S;K;iCAE1C,iB;MACI,2CAAuB,kBA Aa,KAAM,UAAAnB,KACvB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADf,CAA vB,C;K;mCAGJ,Y;MACI,O AAI,cAAJ,GAAe,EAAf,GAAwB,OAkK,UwBkBS,IxBIBd,UAAkB,SwBkJ,IxBIBd,K;K;mCAE5B,Y;MAAkC,2 BAAE,UAAf,+BAAU,SAAV,C;K;IAE1C,+B;MAAA,mC;MACI,aAC8B,cAAy,OAAf,CAA E,CAAZ,EAAwB,O AAF,CAA E,CAAxB,C;K;;;IAFIC,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;;;IASiB,uC;MA sBjB,gC;MatBmD,0BA Ae,KAAf,EAA sB,YAA tB,EAAoC,CAAPC,C;K;iFAC3B,Y;MAAQ,iB;K;wFACD,Y;MAAQ,gB;K;0CAEvC,iB;M AA6C,qBAAS,KAAT,IAAkB,SAAS,S;K;iCAExE,Y;MAKkC,oBAAQ,S;K;gCAE1C,iB;MACI,0CAAsB,kBAaA, KAAM,UAAAnB,KACtB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADhB,CAAtB,C;K;kCAGJ,Y;MACI,OA AI,cAAJ,GAAe,EAAf,GAAwB,MAAK,UAAAL,QAAa,SAAb,I;K;kCAE5B,Y;MAAkC,OAAE,UAAf,qBAAU,S;K; IAE5C,8B;MAAA,kC;MACI,aAC6B,aAAS,CAAT,EAAY,CAAZ,C;K;;;IAFjC,0C;MAAA,yC;QAAA,wB;OAAA, kC;K;;;IASkB,wC;MA sBIB,iC;MatBsD,2BAAgB,KAAhB,EAAuB,YAAvB,K;K;kFAC7B,Y;MAAQ,iB;K;yFACD ,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,kCAAS,KAAT,UAAkB,sBAAS,SAAT,M;K;kCAEhE,Y;MAKkC,kCAAQ, SAAR,K;K;iCAE1C,iB;MACI,2CAAuB,kBAaA,KAAM,UAAAnB,KACvB,mBAAS,KAAM,MAAf,KAAwB,kBAA Q,KAAM,KAA d,CADD,CAA vB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,eAAW,8BA AW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EA AV,CAAV,CAAPC,CAA8D,Q;K;mCAE1F,Y;MAAkC,O AAE,UAAf,qBAAU,SAAV,W;K;IAE1C,+B;MAAA,mC;MACI,aAC8B,qB;K;;;IAFIC,2C;MAAA,0C;QAAA,yB; OAAA,mC;K;;;I8C9EJ,gB;MAAA,oB;K;8BAII,Y;MAA0B,oB;K;;;IAJ9B,4B;MAAA,2B;QAAA,U;OAAA,oB;K;I CEA,yC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,uC;MAAA,0C;O;MAII,kE;MAEA,wF;MAEA,oF;MAEA,wE;

MAEA,kE;MAEA,oF;MAEA,sF;MAEA,8E;MAEA,wE;MAEA,sF;MAEA,uF;MAEA,iE;MAEA,6E;MAEA,iE;MAEA,2E;K;;IA5BA,8C;MAAA,6B;MAAA,sC;K;;IAEA,yD;MAAA,6B;MAAA,iD;K;;IAEA,uD;MAAA,6B;MAAA,+C;K;;IAEA,iD;MAAA,6B;MAAA,yC;K;;IAEA,8C;MAAA,6B;MAAA,sC;K;;IAEA,uD;MAAA,6B;MAAA,+C;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,oD;MAAA,6B;MAAA,4C;K;;IAEA,iD;MAAA,6B;MAAA,yC;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,6C;MAAA,6B;MAAA,qC;K;;IAEA,mD;MAAA,6B;MAAA,2C;K;;IAEA,6C;MAAA,6B;MAAA,qC;K;;IAEA,kD;MAAA,6B;MAAA,0C;K;;IAhCJ,mC;MAAA,+oB;K;;IAAA,wC;MAAA,a;AAAA,O;UAAA,2C;aAAA,kB;UAAA,sD;aAAA,gB;UAAA,oD;aAAA,U;UAAA,8C;aAAA,O;UAAA,2C;aAAA,gB;UAAA,oD;aAAA,iB;UAAA,qD;aAAA,a;UAAA,iD;aAAA,U;UAAA,8C;aAAA,iB;UAAA,qD;aAAA,iB;UAAA,qD;aAAA,M;UAAA,0C;aAAA,Y;UAAA,gD;aAAA,M;UAAA,0C;aAAA,W;UAAA,+C;gBAAA,uE;;K;;IAqCA,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAMI,0E;MAEA,0E;MAEA,4E;K;;IAJA,kD;MAAA,gC;MAAA,0C;K;;IAEA,kD;MAAA,gC;MAAA,0C;K;;IAEA,mD;MAAA,gC;MAAA,2C;K;;IAVJ,sC;MAAA,sI;K;;IAAA,2C;MAAA,a;AAAA,Q;UAAA,+C;aAAA,Q;UAAA,+C;aAAA,S;UAAA,gD;gBAAA,0E;;K;;IAwB8B,gC;MAAC,oC;K;;IAQE,0B;MAAC,qB;QAAA,iD;MAAA,kB;K;;IAEIC,sB;K;;IAAMA,4B;K;;IC/EA,yB;K;;IAQA,6B;K;;ICnBA,mB;MAEI,UAAU,IAAI,C;MACd,OAAW,OAAO,CAAX,GAAc,GAAAd,GAAuB,MAAM,CAAN,I;K;IAGIC,qB;MACI,UAAU,SAAI,CAAJ,C;MACV,OAAW,kBAAO,CAAX,GAAc,GAAAd,GAAuB,QAAM,CAAN,C;K;IAGIC,mC;MAEI,OAAO,IAAI,IAAI,CAAJ,EAAO,CAAP,IAAY,IAAI,CAAJ,EAAO,CAAP,CAAZ,IAAJ,EAA2B,CAA3B,C;K;IAGX,qC;MACI,OAAO,MAAI,MAAI,CAAJ,EAAO,CAAP,WAY,MAAI,CAAJ,EAAO,CAAP,CAAZ,CAAJ,EAA2B,CAA3B,C;K;IAGX,qD;MAkBI,WAAO,CAAP,C;QAD2E,OAC3D,SAAS,GAAb,GAAkB,GAAIB,GAA2B,MAAM,iBAAiB,GAAjB,EAA6B,KAAtB,EAA6B,IAA7B,CAAN,I;WACvC,WAAO,CAAP,C;QAF2E,OAE3D,SAAS,GAAb,GAAkB,GAAIB,GAA2B,MAAM,iBAAiB,KAAjB,EA AwB,GAAxB,EAA6B,CAAC,IAAD,IAA7B,CAAN,I;;QAC/B,MAAA,gCAAYB,eAAzB,C;K;IAGzB,uD;MAkBI,sBAAO,CAAP,C;QAD+E,OAC/D,sBAAS,GAAT,MAAJ,GAAkB,GAAIB,GAA2B,aAAM,mBAAiB,GAAjB,EAA6B,KAAtB,EAA6B,IAA7B,CAAN,C;WACvC,sBAAO,CAAP,C;QAF+E,OAE/D,sBAAS,GAAT,MAAJ,GAAkB,GAAIB,GAA2B,QAAM,mBAAiB,KAAjB,EAAwB,GAAxB,EAA8B,IAAD,aAA7B,CAAN,C;;QAC/B,MAAA,gCAAYB,eAAzB,C;K;IC7DjB,kD;MAAA,8B;MACI,aAAY,C;K;oDACZ,Y;MAAYB,oBAAQ,gBAAI,O;K;iDACrC,Y;MAAgD,Q;MAA1B,IAAI,aAAQ,gBAAI,OAAhB,C;QAAA,OAA6B,iBAAI,iBAAJ,EAAI,yBAAJ,O;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;QACI,UAA0B,K;QAF0B,2C;;QAAA,QAAM,IAAN,C;eASxD,c;YATwD,OAStC,qBAAqB,KAArB,C;eACIB,W;YAVwD,OAuzC,kBAAkB,KAAIB,C;eACf,Y;YAXwD,OAWxC,mBAAMB,KAAAnB,C;eAChB,W;YAZwD,OAYzC,kBAAkB,KAAIB,C;eACf,U;YAbwD,OAA1C,iBAAiB,KAAjB,C;eACd,W;YAdwD,OAczC,kBAAkB,KAAIB,C;eACf,Y;YAfWd,OAexC,mBAAMB,KAAAnB,C;eAChB,a;YAhBwD,OAgBvC,oBAAoB,KAApB,C;kBACT,MAAM,6BAA6B,2DAA+C,IAA/C,CAAtB,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;+DACvC,Y;MAA2D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJnF,qC;MACyD,oD;K;IAON,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOE,yD;MAAA,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;2DACvC,Y;MAAYD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOF,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOF,uD;MAAA,kC;MAAS,sB;MACtD,aAAY,C;K;uDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;uDACvC,Y;MAAuD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJ/E,iC;MACiD,gD;K;IAOI,yD;MAAA,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;2DACvC,Y;MAAYD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOE,0D;MAAA,kC;MAAS,yB;MAC5D,aAAY,C;K;0DACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;6DACvC,Y;MAA0D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB

,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJIF,oC;MACuD,mD;K;IAOJ,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOpB,gC;MAAC,wB;K;;IAEHc,+B;MAC8C,MAAM,mC;K;IAEpD,8C;MAEI,IAAI,qBAAJ,C;QACI,OAAO,C5ByIiF,W4BzIrE,U5ByIqE,E4BzIzD,Q5ByIyD,C;;Q4BvIxF,OAAS,CAAY,qBAAsB,UAAAtB,EAakC,QAAIC,C;;K;IAI7B,2C;MAEI,IAAI,KAAy,kBAAhB,C;QAGI,KAAy,mBAakB,QAAIB,C;;QAEH,QAAT,SAA+C,CAAIB,IAAjC,KAAiC,EAakB,O;;K;IAIvD,sC;MAGwB,Q;MADpB,gBAAgB,IAAhB,KAAgB,E;MACI,IAAI,OCnGkB,ODmGT,OAAT,EAaqB,WAArB,CAAJ,C;QACHB,OAAI,aAAJ,GAAmB,KAAM,WAAzB,GAAyC,I;;QAEzC,c;;MAHJ,wB;MAKA,kBAakB,K;MACIB,iBAaiB,W;MACjB,OAAO,S;K;IAIa,sB;MAAC,U;K;iCACrB,iB;MACI,OAAO,mCAAsB,WAAK,KAAM,E;K;mCAG5C,Y;MACI,OAAO,M;K;mCAGX,Y;MACI,OAAuC,oBAAnB,UAA5B,IAAe,EAAa,CAAmB,C;K;OCAG3C,iB;MACI,OAAOR,IAAI,EAAW,GAAN,K;K;kCAGL,Y;MAEI,OAAO,M;K;;+DAIf,gB;MAEI,YAAy,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAEIB,MAAM,CAAN,IAAW,G;;;MAGnB,OAAO,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;K;IAG3B,2B;MAMW,WAAO,S;MAIBd,YAAy,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAEIB,MAAM,CAAN,IAAW,G;;;MAYnB,OATO,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;K;IAY3B,oC;MAWI,WAAqB,S;MACrB,IAAI,qBAAmB,CAAY,OAAAd,KAA2B,SAAhD,C;QAJCA,YAAy,MAkCM,IAICW,OAAjB,C;QACZ,sBAiCkB,IAjCIB,a;UACI,UAGCc,IAhCJ,CAAK,CAAL,C;UACV,IAAI,oBAAJ,C;YACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;YAEIB,MAAM,CAAN,IAAW,G;;;QA4Bf,OAzBG,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;;QA2BnB,WAAW,C;QACX,OBAAU,IAAV,e;UACY,IAAoB,I;UAA5B,eAAQ,QAAoB,OAAPB,IAAQ,CAAH,GAAG,CAAY,OAAPB,oCAAR,K;;QAEJ,aAAa,IAAjB,CAAC,YAAgB,CAAH,IAAG,C;QE3FjB,IF4FyB,CE5FhB,OAAL,KAAkB,SAAtB,C;UF4F4B,ME3FxB,UF2FqB,CE3FF,O;SF4FnB,OAAO,C;QACP,OBAAU,IAAV,e;UAE0B,YACX,M;UAFX,YAAU,IAAQ,CAAH,GAAG,C;UACI,SAAJ,KAAI,O;UAAAtB,aAAU,CAAV,kB;YACI,OAAO,aAAP,EAAO,qBAAP,YAAiB,MAAI,CAAJ,C;;QAGzB,OAAO,M;;K;IAIf,OB;MACgC,WAAS,c;MAAT,YAAhC,EAAE,MAAM,KAAiD,CAA3C,SAA2C,C;MAWrd,eAAiB,I;MAXW,OAYrB,K;K;IAVX,uB;MAC6B,WAAS,W;MAAT,YAAsB,IAA/C,WAA+C,CAAnC,EAAE,MAAM,KAAK,CAAC,SAAD,CAAsB,C;MAQ/C,eAAiB,I;MARQ,OASIB,K;K;IAPX,uB;MAC6B,WAAS,W;MAAT,YAA7B,EAAE,MAMAM,KAA2C,CAArC,SAAqC,C;MAK/C,eAAiB,I;MALQ,OAMIB,K;K;2DAJX,uB;MAGI,eAAiB,I;MACjB,OA AO,K;K;KEG9MX,yB;MAAA,OB;MAAA,uB;QASI,OAAoB,OAAb,ItD0Q+B,KAAAL,GAAiB,KsD1Q9B,C;O;KATxB,C;IClqC,2C;MAAC,8C;MACIC,eAAsB,C;MACTB,wBAA+B,C;MAC/B,gBAA6B,I;MAC7B,mBAAsC,I;MACTc,qBAAYC,I;MAEZC,yBAAgD,yBAAmB,Q;MAEnE,sBAAGD,I;K;wFAFhD,Y;MAAA,6B;K;OCAIA,Y;MAEY,kBADr,M;MAAA,U;MAAA,2C;QAAA,e;;QAES,gBADD,2CAAQ,yCAAR,gDAAwD,IAAxD,6BAAiE,I;QACzD,sB1CwEd,S;Q0C1EF,S1C2EG,S;;M0C3EH,a;K;iDAIJ,kB;MACI,kBAAC,IAAd,C;MACiC,oB;MCuBrB,Q;MADR,IdTBsB,MCsBtB,W;QADJ,mBACiB,I;;QADjB,mBAEY,QDvBc,MCuBd,+D;;MDvBZ,yC;MACA,2BAAmC,MAAO,kBAA1C,C;MAGA,OAAO,IAAP,C;Q1CoCY,gB0CnCH,S;;QACD,iBAaiB,8B;QAGjB,IAAI,OBAAJ,C;UACI,qBAAC,e;;UAEd,oBAAQ,OB;UACR,wBAAy,kB;;;UAIZ,cAAc,oB;UACd,IAAI,YAAy,yBAAhB,C;YAAqC,M;UACrC,kBAAGB,O;UACHB,qBAAmB,I;;UAEnB,kBAAGB,I;UACHB,qBAAmB,S;;QAGvB,gC;QAEA,IAAI,wCAAJ,C;UAEI,YAAU,U;;UAGV,U;UAAA,OC;YETHB,8BDgDQ,WAAO,qBAAP,CChDR,C;YFSgB,a;;YAAA,a;UAAA,mB;YAEK,UEpBrB,oBDgDQ,WD5B+B,eC4B/B,CChDR,C;WFqBgB,M;;K;mDAMhB,Y;MACI,kBAakB,mB;MACIB,IAAI,uBAAuB,gBAAgB,IAA3C,C;QACI,uCAAQ,yCAAR,EAAmC,wCAA+B,WAA/B,C;OAEvC,sBAAoB,mC;K;;IAM5B,iC;MAAA,qC;K;gGAEQ,Y;M7C0DyC,MAAM,6B6C1DjC,uC7C0D+D,WAA9B,C;K;yD6CxDnD,kB;M7CwD6C,MAAM,6B6CvDzC,uC7CuDuE,WAA9B,C;K;+C6CpDnD,Y;MAAkC,8C;K;;;IARtC,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IGyDA,mG;IAAA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAMQ,Y;MACI,Q;MAAA,sC;QAAiB,U;OACjB,OAAO,oB;K;IARnB,6G;sJAJIA,iC;MAGBU,OAAK,SAAL,CAAiB,UAAjB,EAA6B,KAA7B,C;K;wJAEV,2C;MAiBU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,UAA3B,EAAuC,KAAvC,C;K;wJAEV,kD;MAKU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,KAA3B,EAakC,UAAIC,EAA8C,KAA9C,C;K;IAGc6C,oG;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,kBAAjB,C;O;K;IA/BZ,6D;MA0BI,IAAS,SAAY,OAAjB,IAA2

B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,EAA6B,IAA7B,C;;QA8D0B,Q;QAhE9B,4DAImD,0DAJnD,E  
AgE8B,qBA5DS,UA4DT,qCAhE9B,C;;K;IAwCmD,wH;MAAA,mB;QAC3C,OAaK,iCAAL,CAAiB,gBAAjB,EA  
A2B,kBAA3B,C;O;K;IAhCZ,yE;MA2BI,IAAS,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,Q  
AAjB,EAA2B,UAA3B,EAAuC,IAAvC,C;;QA0B0B,Q;QA5B9B,4DAImD,sEAJnD,EA4B8B,qBAxBS,UAWBT,q  
CA5B9B,C;;K;IASJ,gC;MAWK,kBAAD,M;MAAA,kBAAC,qEAAD,4DAA2C,S;K;6CAG/C,yB;MAAA,mG;MA  
AA,yH;MAAA,6F;QAKW,kC;QAAS,4C;O;MALpB,sEAMQ,Y;QACI,Q;QAAA,sC;UAAiB,U;SACjB,OAAO,oB;  
O;MARnB,6G;MAAA,oC;QAKkC,Q;QAA9B,mEAA8B,oEAA9B,C;O;KALJ,C;IFC7HA,a;MAC6C,OAAA,MAA  
a,YAAW,CAAX,C;K;ICM3B,iC;;MAA6E,Q;MAAA,+BAAS,I;sCAAiB,O,2DAAA,O;;;K;;;IAC/F,2B;MAAA,  
iD;MAAuB,oBAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,sC;MAAA,iD;MAAuC,oBAAK,OAAL,EAAC,IA  
Ad,C;MAAvC,Y;K;IACA,oC;MAAA,iD;MAAwC,oBAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAI+B,mC;;  
MAA6E,Q;MAAA,+BAAS,I;sCAAiB,O,2DAAA,O;;;K;;;IACnG,+B;MAAA,mD;MAAuB,sBAAK,IAAL,EA  
AW,IAAX,C;MAAvB,Y;K;IACA,0C;MAAA,mD;MAAuC,sBAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,w  
C;MAAA,mD;MAAwC,sBAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAGsC,0C;MAA0D,qBAAU,OAAV,EA  
AmB,KAAhB,C;;K;;IACHG,sC;MAAA,0D;MAAuB,6BAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,iD;MA  
AA,0D;MAAuC,6BAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,+C;MAAA,0D;MAAwC,6BAAK,SAAL,EA  
AGB,KAAhB,C;MAAxC,Y;K;IAG8C,kD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACxG,8C;MAAA,kE  
;MAAuB,qCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,yD;MAAA,kE;MAAuC,qCAAK,OAAL,EAAC,IAA  
d,C;MAAvC,Y;K;IACA,uD;MAAA,kE;MAAwC,qCAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAG2C,+C;M  
AA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACrG,2C;MAAA,+D;MAAuB,kCAAK,IAAL,EAAW,IAAX,C;M  
AAvB,Y;K;IACA,sD;MAAA,+D;MAAuC,kCAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,oD;MAAA,+D;M  
AAwC,kCAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAG+C,4C;8BAAwD,O;;K;;IACvG,+C;MAAA,mE;MA  
AuB,sCAAK,IAAL,C;MAAvB,Y;K;IAGqD,yD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC/G,qD;MA  
AA,yE;MAAuB,4CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,gE;MAAA,yE;MAAuC,4CAAK,OAAL,EA  
Ac,IAAd,C;MAAvC,Y;K;IACA,8D;MAAA,yE;MAAwC,4CAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAGm  
D,uD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC7G,mD;MAAA,uE;MAAuB,0CAAK,IAAL,EAAW,IA  
AX,C;MAAvB,Y;K;IACA,8D;MAAA,uE;MAAuC,0CAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,4D;MA  
AA,uE;MAAwC,0CAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAI2C,wC;sCAAG,E,O;;K;;IAC3G,2C;MAAA,+  
D;MAAuB,kCAAK,IAAL,C;MAAvB,Y;K;IAI0C,uC;8BAAwD,O;;K;;IACIG,0C;MAAA,8D;MAAuB,iCAAK,IA  
AL,C;MAAvB,Y;K;IAGwC,qC;8BAAwD,O;;K;;IACHG,wC;MAAA,4D;MAAuB,+BAAK,IAAL,C;MAAvB,Y;K;I  
AIJ,wC;MACmD,mBAAM,OAAN,EAAC,KAaf,C;;K;;IAC/C,oC;MAAA,wD;MAAuB,sBAAK,IAAL,Q;MAAvB,  
Y;K;IACA,+C;MAAA,wD;MAAGC,2BAAK,OAAL,EAAC,IAAd,C;MAAhC,Y;K;IACA,+C;MAAA,wD;MAAiD,IA  
AY,I;MAAZB,2BAaA,SAAR,OAAQ,CAAb,EAAYB,sDAAzB,C;MAApC,Y;K;IAG4C,yC;8BAAwD,O;;K;;IACp  
G,4C;MAAA,gE;MAAuB,mCAAK,IAAL,C;MAAvB,Y;K;IAIyC,sC;8BAAwD,O;;K;;IACjG,yC;MAAA,6D;MAA  
uB,gCAAK,IAAL,C;MAAvB,Y;K;IAGkD,sD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC5G,kD;MAA  
A,sE;MAAuB,yCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,6D;MAAA,sE;MAAuC,yCAAK,OAAL,EAAC  
IAAd,C;MAAvC,Y;K;IACA,2D;MAAA,sE;MAAwC,yCAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAG0D,8  
D;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACpH,0D;MAAA,8E;MAAuB,iDAAK,IAAL,EAAW,IAAX,  
C;MAAvB,Y;K;IACA,qE;MAAA,8E;MAAuC,iDAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,mE;MAAA,8E;  
MAAwC,iDAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;6FCIGJ,yB;MAEI,OAAG,GAAG,CAAC,QAAD,C;K;m  
FAGV,oB;MAEI,OAAG,GAAG,GAAG,G;K;6ETVN,a;MAK8C,cAAvC,C;K;6EHP,Y;MAG+C,S;K;IA6B/C,2B;M  
AG4D,0BAaE,WAAf,C;K;IAE5D,mC;MAIWf,0BAaE,WAAf,C;K;IAExF,mC;MAKwE,0BAaE,WAAf,C;K;IAG  
xE,4B;MAI8D,Q;MAH1D,aAAkB,GAAL,O;MACtB,aAAkB,GAAL,O;MACtB,YAAiB,C;MACjB,OAAO,QAAQ,  
MAAR,IAAkB,QAAQ,MAAjC,C;QAAyC,IAAI,KAAJ,IAAa,IAAI,YAAJ,EAAl,oBAAJ,O;;MACtD,OAAO,G;K;I  
AIX,wD;MAMuC,Q;MALnC,aAAa,MAAO,OAAM,CAAN,EAAS,OAAT,C;MA0BpB,IAzBc,MAyBL,OAAL,KA  
AkB,SAAtB,C;QAZBsB,MA0BIB,UA1BU,MA0BS,O;OAZBvB,YAAiB,MAAO,O;MACxB,IAAI,UAAU,KAAAd,C  
;QACI,gBAAGB,O;QACHB,OAAO,QAAQ,OAAf,C;UAAwB,OAAO,YAAP,EAAO,oBAAP,UAAkB,Y;;OAE9C,  
OAAO,M;K;IAGX,gD;MAKoB,UAAmB,M;MAJnC,aAAa,KAAM,Q;MACnB,MAAO,OAAP,IAAiB,UAAW,K;  
MAc5B,IAbc,KAAI,OAAL,KAakB,SAAtB,C;QAbqB,MAcJb,UAdU,KAcS,O;OAbvB,YAAiB,KAAM,O;MACP,

4B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAY,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MAC9C,OAAO,M;  
K;IAGX,yD;MAEoB,UAAgB,M;MADhC,YAAY,U;MACI,4B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAY,IA  
AI,cAAJ,EAAI,sBAAJ,YAAe,O;;MAC3C,OAAO,G;K;oFAGX,oB;MACI,IAAI,IAAK,OAAL,KAAkB,SAAtB,C;  
QACI,YAAc,IAAK,O;Q;0EAI3B,wB;MAA+D,OAAA,MAAa,QAAO,GAAP,EAAY,OAAZ,C;K;IS/F5E,mC;MA  
OI,kBAAkB,MAAa,eAAc,SAAd,C;MAC/B,iBAAiB,MAAa,eAAc,IAAd,C;MAC9B,OAAW,gBAAe,UAAAnB,GA  
A+B,SAA/B,GAAYC,CAAC,S;K;0ECUrD,2B;MAKyE,OAAA,MAAa,gBAAe,IAAf,C;K;4EAYtF,2B;MAKsE,O  
AAA,MAAa,eAAc,IAAd,C;K;kEAGnF,qB;MACgD,OAAA,MAAa,KAAK,UAAS,GAAT,EAAC,IAAd,C;K;wEAC  
hC,qB;MAAQ,OAAK,SAAY,a;K;0EACxB,qB;MAAQ,OAAK,SAAY,c;K;IC3D5D,0D;MAGI,OAAO,I;K;ICHX,s  
C;MAMsD,OAAA,SAAY,UAAS,WAAW,KAAX,CAAT,C;K;ItDKIE,uC;Mf2nBW,Q;MAAA,IernBgB,KfqBZ,I  
AAS,CAAT,IernBY,KfqBZ,IAAS,wBAA3B,C;QAAA,OAAc,UernBtB,KfqBZ,C;;QernBb,MAAM,8BAA0B,i  
CAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4nBW,Q;MAAA,IetnBgB,KfsnBZ,IAAS,CAAT,IetnBY,  
KfsnBE,IAAS,0BAA3B,C;QAAA,OAAc,UetnBtB,KfsnBZ,C;;QetnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,M  
AA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6nBW,Q;MAAA,IevnBgB,KfunBZ,IAAS,CAAT,IevnBY,KfunBE,IAAS,0B  
AA3B,C;QAAA,OAAc,UevnBtB,KfunBZ,C;;QevnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,  
W;K;IAGJ,uC;Mf8nBW,Q;MAAA,IexnBgB,KfwnBZ,IAAS,CAAT,IexnBY,KfwnBE,IAAS,0BAA3B,C;QAAA,O  
AAc,UexnBtB,KfwnBZ,C;;QexnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;M  
f+nBW,Q;MAAA,IeznBgB,KfynBZ,IAAS,CAAT,IeznBY,KfynBE,IAAS,0BAA3B,C;QAAA,OAAc,UeznBtB,Kf  
ynBZ,C;;QeznBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgoBW,Q;MAAA,I  
e1nBgB,Kf0nBZ,IAAS,CAAT,Ie1nBY,Kf0nBE,IAAS,0BAA3B,C;QAAA,OAAc,Ue1nBtB,Kf0nBZ,C;;Qe1nBb,  
MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfioBW,Q;MAAA,Ie3nBgB,Kf2nBZ,IA  
AS,CAAT,Ie3nBY,Kf2nBE,IAAS,0BAA3B,C;QAAA,OAAc,Ue3nBtB,Kf2nBZ,C;;Qe3nBb,MAAM,8BAA0B,i  
CAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkoBW,Q;MAAA,Ie5nBgB,Kf4nBZ,IAAS,CAAT,Ie5nBY  
,Kf4nBE,IAAS,0BAA3B,C;QAAA,OAAc,Ue5nBtB,Kf4nBZ,C;;Qe5nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,  
MAA1B,C;;MAAtC,W;K;IAGJ,wC;MfmoBW,Q;MAAA,Ie7nBgB,Kf6nBZ,IAAS,CAAT,Ie7nBY,Kf6nBE,IAAS,0  
BAA3B,C;QAAA,OAAc,Ue7nBtB,Kf6nBZ,C;;Qe7nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAA  
tC,W;K;IAGJ,2B;MAII,OAAO,cAAa,SAAb,C;K;oFAGX,yB;MAAA,gD;MAAA,4B;QAKI,OAAc,OAA/B,SAA  
+B,C;O;KAL1C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAuC,OAAhC,SAAGC,C;O;KAL3C,C;oFAQA,yB  
;MAAA,gD;MAAA,4B;QAKI,OAAqC,OAA9B,SAA8B,C;O;KALzC,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,  
OAAc,OAA/B,SAA+B,C;O;KAL1C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAuC,OAAhC,SAAGC,C;O;  
KAL3C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAwC,OAAjC,SAAiC,C;O;KAL5C,C;oFAQA,yB;MAAA,  
gD;MAAA,4B;QAKI,OAAyC,OAAiC,SAAKC,C;O;KAL7C,C;IAYW,2C;MAAA,8B;MAAS,uB;K;4FACW,Y;MA  
AQ,OAAA,gBAAY,O;K;6CAC3C,Y;MAAKC,OAAA,gBfupP/B,YAAQ,C;K;oDetnPX,mB;MAAGD,OAAAY,WAA  
Z,gBAAY,EAAS,OAAT,C;K;iDAC5D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAYB,SAAZB,C;MACb,OAAO,6BA  
AY,KAAZ,E;K;mDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,uFAAD,CAAJ,C;QAAgC,OAAO,E;MACvC,OAAmB  
,UAAZ,gBAAY,EAAY,OAAR,C;K;uDAEvB,mB;MAES,Q;MAAL,IAAI,eAAC,uFAAD,CAAJ,C;QAAgC,OAAO  
,E;MACvC,OAAmB,cAAZ,gBAAY,EAAY,OAAZ,C;K;;IAPB/B,6B;MAII,0C;K;IAqBJ,+C;MAAI,OAAAY,kBAAL,  
SAAK,EAkB,KAAIB,C;K;IAqBhB,0C;MASI,OAAAY,oBAAL,SAAK,C;K;IAehB,0C;MAYI,OAAAY,oBAAL,SA  
AK,C;K;IAkBhB,2C;MAWI,OAAAY,cAAL,SAAK,EAAC,KAAd,C;K;IAGhB,2C;MAWI,OAAAY,cAAL,SAAK,EA  
Ac,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,SAAK,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,SA  
K,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,SAAK,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,  
SAAK,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,SAAK,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,c  
AAL,SAAK,EAAC,KAAd,C;K;IAGhB,4C;MAWI,OAAAY,cAAL,SAAK,EAAC,KAAd,C;K;IAwHhB,sC;MAOI,OA  
AY,gBAAL,SAAK,C;K;IAGhB,sC;MAOI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,SAAK,  
C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MA  
OI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,S  
AAK,C;K;IAGhB,uC;MAOI,OAAAY,gBAAL,SAAK,C;K;IAoFhB,sC;MASI,OAAAY,gBAAL,SAAK,C;K;IAGhB,s  
C;MASI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAAY,gBA  
AL,SAAK,C;K;IAGhB,uC;MASI,OAAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAAY,gBAAL,SAAK,C;K;IAGh



7B,EAAcC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAA,2BA  
AkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OAAM,SAAN,EAAi  
B,OAAjB,C;MwC9pC9C,eAAiB,I;MxC8pCjB,OwC7pCO,K;K;IxCgqCX,sD;MAUI,oCAAA,2BAAkB,SAAlB,EA  
A6B,OAA7B,EAAcC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oC  
AAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,  
C;K;IAG5B,uD;MAUI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACN,WAAS,c;MAAT,Y  
AA8B,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;MwCxsCjD,eAAiB,I;MxCwsCjB,OwCvsCO,K;K;IxC0sCX,uD;M  
AUI,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OA  
AM,SAAN,EAAiB,OAAjB,C;MwCttC9C,eAAiB,I;MxCstCjB,OwCrtCO,K;K;IxCwtCX,wD;MAWgD,yB;QAAA,  
YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;M  
ACR,SAAY,MAAK,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG  
,uB;QAAA,UAAe,gB;MAC/E,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SAAY,MAA  
K,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,wD;MAWkD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe  
,gB;MACjF,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAC,S  
AAd,EAAYB,OAazB,C;K;IAGrB,wD;MAW8C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC7E,oCA  
AA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAC,SAAd,EAAYB,OA  
AzB,C;K;IAGrB,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAA,2BAAkB,SA  
AlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,  
wD;MAWkD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACjF,oCAAA,2BAAkB,SAAlB,EAA6B,OAA  
7B,EAAcC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,wD;MAWoD,yB;  
QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACnF,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAA  
tC,C;MACR,SAAY,MAAK,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,yD;MAWsD,yB;QAAA,YAAiB,C;  
MAAG,uB;QAAA,UAAe,gB;MACrF,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SA  
AY,MAAK,OAAL,EAAC,SAAd,EAAYB,OAazB,C;K;IAGrB,yD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAA  
A,UAAe,gB;MAC/E,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAcC,gBAAtC,C;MACR,SAAY,MAAK,OAAL  
,EAAC,SAAd,EAAYB,OAazB,C;K;iFAGrB,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;K;iFAG5B,  
yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCaxIK,eAAY,OAaz,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;  
MAxIA,qC;QAKI,OAwIO,gCaxIK,gBAAa,OAAb,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QA  
KI,OAwIO,gCaxIK,gBAAW,OAAX,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gC  
AxIK,mBAAY,OAaz,CAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCaxIK,kBAAa,  
OAAb,EAwIL,C;O;KA7IX,C;gFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCaxIK,kBAAC,OAAd,EAwIL,  
C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCaxIK,sBAAE,OAaf,CAwIL,C;O;KA7IX,C;iF  
AQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCaxIK,mBAAY,OAaz,CAwIL,C;O;KA7IX,C;IAQA,sC;MAKI  
,OAAO,oBAAoB,SAAPB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO  
,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,mBAAwB,U  
AAL,SAAK,EAAO,mBAAO,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,s  
C;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,OAA3D,  
EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,oBAAoB,SAAPB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBA  
AwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,OAA3D,EAAiE,QAAjE,C;K;I  
AGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,O  
AA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,oBAAoB,SAAPB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAA  
O,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAahB,IAAP,CAAxB,EAAcD,SAAK,OAA3D,EAAiE,QAAj  
E,C;K;iFAGX,+B;MAKI,OAAY,SAAY,QAAO,QAAP,C;K;iFAG5B,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBA  
AqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EA  
A2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;  
O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFA  
QA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,i  
D;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;Q



AKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qB  
AAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;8FAQA,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;  
K;IAoBL,2B;MAAsB,OAAA,CAAE,iBAAU,CAAV,C;K;IAP/C,2B;MAOI,IAAI,mBAAO,CAAX,C;QAwQY,eAx  
QO,WAwQP,C;Q;IANhB,2B;MAQI,IAAI,mBAAO,CAAX,C;QAAC,UAAU,SAAV,C;K;IAGIB,wC;MAQI,IAAI,  
mBAAO,CAAX,C;QAAC,cAAc,SAAd,EAAoB,UAApB,C;K;IAGIB,gD;MAewD,yB;QAAA,YAAiB,C;MAAG,uB  
;QAAA,UAAe,gB;MACvF,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,E  
AAoB,SAApB,EAA+B,OAA/B,EAAwC,cAAxC,C;K;IAGJ,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U  
AAe,gB;MACHe,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA  
AT,EAAoB,OAAPB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U  
AAe,gB;MACjE,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA  
AT,EAAoB,OAAPB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAagC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U  
AAe,gB;MAC/D,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA  
AT,EAAoB,OAAPB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UA  
Ae,gB;MACHe,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,EAA8C,SA  
9C,EAAYD,OAazD,EAakE,cAAIE,C;K;IAGJ,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;M  
ACjE,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB  
,OAAPB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAamC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;M  
ACIE,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB  
,OAAPB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MA  
ChE,oCAAA,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB,  
OAAPB,C;MACvB,KAAT,QAAS,C;K;iFAGb,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,M  
AAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iF  
AGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SA  
AY,MAAK,UAAL,C;K;IAGhB,yC;MAMI,IAAI,mBAAO,CAAX,C;QAAC,gBAAC,SAAd,EAAoB,UAApB,C;K;I  
AGIB,+D;MAa0E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACzG,oCAAA,2BAAkB,SAAlB,EAA6B,  
OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,EAAoB,SAAPB,EAA+B,OAA/B,EAAwC,UAAxC,C;K;IAGJ,  
mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K  
;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,S  
AAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,  
MAAK,SAAL,C;K;IAOH,kD;MAAA,wB;QAAW,q  
CAAK,KAAL,E;O;K;IAJIC,oC;MAII,OAAO,iBAAM,gBAAN,EAAY,gCAAZ,C;K;IuDnpEX,oB;MAAA,wB;MA  
EI,6B;MACA,gC;MAKuB,UAAT,MAAS,EAAT,MAAS,EAAT,M;MAFV,eAAe,kE;MACf,iBAAiB,eAAS,GAAT,  
C;MACE,sBAAT,QAAS,C;MAAT,mB;MAAA,kB;MAAA,kB;MAAV,8C;QACI,WAAW,oBAAS,CAAT,CzC2Bu  
B,IyC3BIC,IAA+B,C;;MAInC,qBAAqB,48C;MACrB,WAAW,mBAAMb,cAAAnB,EAAMC,UAAAnC,EAA+C,IAA/  
C,C;MACX,YAAY,eAAS,IAAK,OAAL,GAAY,CAAZ,IAAT,C;MACZ,0BAAU,IAAV,e;QACI,MAAM,MAAI,C  
AAJ,IAAN,IAAe,MAAM,GAAN,IAAW,KAAC,GAAL,CAAX,I;;MAEnB,yBAAoB,K;MAGpB,oBAAoB,m/D;M  
ACpB,4BAAuB,mBAAMb,aAAAnB,EAAC,UAAIC,EAA8C,IAA9C,C;K;;IAvB/B,gC;MAAA,+B;QAAA,c;OAA  
A,wB;K;IA2BA,qC;MAKkB,IAJP,I;MACH,WAAO,EAAP,C;QAAC,W;WACf,WAAO,IAAP,C;QAAGB,OAAL,C  
AAC,KAAO,CAAR,MAAC,CAAlB,GAAqB,QAAS,CAA9B,GAAqC,OAAS,E;;QAEID,QAAM,KAAC,CAAX,C;  
eACL,C;YAAK,eAAS,E;YAAd,K;eACA,C;YAAK,OAAC,QAAS,CAAV,GAAiB,E;YAATB,K;kBACQ,cAAS,E;Y  
AHrB,K;;MAJR,W;K;IAYJ,qC;MAII,SAAS,SzCRiC,I;MyCU1C,YAAY,kBAAkB,sBAAS,kBAA3B,EAA8C,EA  
A9C,C;MACZ,YAAY,sBAAS,kBAAT,CAA2B,KAA3B,C;MACZ,WAAW,sBAAS,qBAAT,CAA8B,KAA9B,C;M  
ACX,YAAY,kBAAkB,IAAlB,EAAwB,KAAC,KAAL,IAAxB,C;MAEZ,OAAW,UAAS,EAAb,GAAYC,mDAAzC,  
GAAoD,K;K;IAG/D,8D;MAKiB,UAIE,M;MARf,aAAa,eAAS,YAAT,C;MACb,YAAY,C;MACZ,UAAU,C;MAC  
V,YAAY,C;MACC,yB;MAAb,OAAa,cAAb,C;QAAa,iC;QACT,aAAa,WAAW,IzCxBc,IyCwBzB,C;QACb,MAA  
M,MAAQ,CAAC,SAAW,EAAZ,KAAASB,K;QACpC,IAAI,SAAS,EAAb,C;UACI,OAAO,cAAP,EAAO,sBAAP,Y  
AAkB,G;UACIB,MAAM,C;UACN,QAAQ,C;;UAER,gBAAS,CAAT,I;;MAGR,OAAO,M;K;ICIE,X,+B;MAII,eA  
Ae,CAAC,iBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAF,C;QAaKB,M;MACIB,mBAAMb,2B;

MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,sBAAK,KAAL,C;QACV,sBAAK,KAAL,EAAC,sBAAK, YAAL,CAAd,C;QACA,sBAAK,YAAL,EAQbB,GAARb,C;QACA,mC;;K;IrDbR,wB;MAOI,OAAW,oBAAK,CAA L,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MakBA,iB;MAiBA,uB;QAMI,OakBO,MAAO,KAIbc,CAk BD,EAiBY,CAkBZ,C;O;KAXBiB,C;mFASA,yB;MASA,iB;MATA,uB;QAMI,OASO,MAAO,KATC,CASD,EATY ,CASZ,C;O;KafIB,C;mFASA,yB;MAAA,iB;MAAA,uB;QAMI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;K ANiB,C;mFASA,gB;MAMI,OAAW,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,iB; MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARiB,C;mFAWA,yB;MAAA,iB;MAAA,uB; QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARiB,C;IAWA,2B;MAOI,OAAO,SAAM,CAAN,EAAS, SAAM,CAAN,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAAM,CAA N,EAaiB,CAAJB,EAA4B,CAA5B,C;O;KANiB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAA M,CAAN,EAaiB,CAAJB,EAA4B,CAA5B,C;O;KANiB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAA O,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KANiB,C;mFASA,mB;MAMW,UAAe,CAPeX,iBAoEc,CAPeD ,MAAJ,GAoEe,CAPeF,GAoEkB,C;MAAZB,OAAa,CAPeF,iBAAK,GAAL,MAAJ,GAoEM,CAPeN,GAAmB,G;K; mFAuE9B,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARI B,C;mFAWA,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KA RIB,C;IAWA,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAA M,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU, KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAXHf,EAwHoB,CAXHpB,C;;MAyHd,O AAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,M AIIV,MAAO,KAKIe,GAlIf,EAKIoB,CAlIpB,C;;MAMId,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MAC V,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4Ie,GA5If,EA4IoB,CA5IpB,C;;MA6I d,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAu B,UAAm,G;QAAZ,MA7IN,oBA6IuB,CA7IvB,MAAJ,GAAY,GAAZ,GA6I2B,C;;MACiC,OAAO,G;K;IAGX,4B; MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9IV,MAAO,KA8Ie, GA9If,EA8IoB,CA9IpB,C;;MA+Id,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB ;QAAU,QAAA,KAAV,M;QAAiB,MA/IV,MAAO,KA+Ie,GA/If,EA+IoB,CA/IpB,C;;MAGJd,OAAO,G;K;IAGX,w B;MAOI,OAAW,oBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MakBA,iB;MAiBA,uB;QAM I,OakBO,MAAO,KAIbc,CAkBD,EAiBY,CAkBZ,C;O;KAXBiB,C;mFASA,yB;MASA,iB;MATA,uB;QAMI,OAS O,MAAO,KATC,CASD,EATY,CASZ,C;O;KafIB,C;mFASA,yB;MAAA,iB;MAAA,uB;QAMI,OAAO,MAAO,K AAI,CAAJ,EAAO,CAAP,C;O;KANiB,C;mFASA,gB;MAMI,OAAW,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAA mB,C;K;mFAG9B,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARiB,C;mF AWA,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARiB,C;IAWA,2B;MA OI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QA MI,OAAO,MAAO,KAAM,CAAN,EAaiB,CAAJB,EAA4B,CAA5B,C;O;KANiB,C;mFASA,yB;MAAA,iB;MAAA ,0B;QAMI,OAAO,MAAO,KAAM,CAAN,EAaiB,CAAJB,EAA4B,CAA5B,C;O;KANiB,C;mFASA,yB;MAAA,iB ;MAAA,0B;QAMI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KANiB,C;mFASA,mB;MAM W,UAAe,CAPeX,iBAoEc,CAPeD,MAAJ,GAoEe,CAPeF,GAoEkB,C;MAAZB,OAAa,CAPeF,iBAAK,GAAL,MA AJ,GAoEM,CAPeN,GAAmB,G;K;mFAuE9B,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAA O,CAAP,EAAU,CAAV,C;O;KARiB,C;mFAWA,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,E AAO,CAAP,EAAU,CAAV,C;O;KARiB,C;IAWA,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QA AU,QAAA,KAAV,M;QAAiB,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAMc,Q ;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAXH f,EAwHoB,CAXHpB,C;;MAyHd,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB; QAAU,QAAA,KAAV,M;QAAiB,MAIIV,MAAO,KAKIe,GAlIf,EAKIoB,CAlIpB,C;;MAMId,OAAO,G;K;IAGX,4B ;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4I e,GA5If,EA4IoB,CA5IpB,C;;MA6Id,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV, gB;QAAU,QAAA,KAAV,M;QAAuB,UAAm,G;QAAZ,MA7IN,oBA6IuB,CA7IvB,MAAJ,GAAY,GAAZ,GA6I2B ,C;;MACiC,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,

M;QAAiB,MA9IV,MAAO,KA8Ie,GA9If,EA8IoB,CA9IpB,C;;MA+Id,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,U  
AAU,C;MACV,wBAAU,KAaV,gB;QAAU,QAAA,KAaV,M;QAAiB,MA/IV,MAAO,KA+Ie,GA/If,EA+IoB,CA/I  
pB,C;;MAgJd,OAAO,G;K;IsDvaX,iB;MAAA,qB;MAEI,0BAA0B,gBACtB,EADsB,EACd,IADc,EACN,IADM,EA  
CE,IADF,EACU,IADV,EACkB,IADIB,EAC0B,IAD1B,EACkC,IADIC,EAC0C,IAD1C,EACkD,IADID,EAC0D,I  
AD1D,EACkE,IADIE,EAC0E,IAD1E,EACkF,IADIF,EAC0F,IAD1F,EACkG,IADIG,EAC0G,IAD1G,EACkH,IAD  
IH,EAC0H,IAD1H,EACkI,IADII,EAEtB,IAFsB,EAEd,IAFc,EAEN,IAFM,EAEe,IAFF,EAEU,IAFV,EAEkB,IAFI  
B,EAE0B,IAF1B,EAEkC,IAFIC,EAE0C,IAF1C,EAEkD,KAFID,EAE0D,KAF1D,EAEkE,KAFIE,EAE0E,KAF1E,  
EAEkF,KAFIF,EAE0F,KAF1F,EAEkG,KAFIG,EAE0G,KAF1G,E;K;;;IAF9B,6B;MAAA,4B;QAAA,W;OAAA,qB  
;K;IAQA,0C;MAKI,aAAa,C;MACb,UAAU,KAAM,OAAN,GAAa,CAAb,I;MACV,aAAa,E;MACb,YAAY,C;MA  
CZ,OAAO,UAAU,GAAjB,C;QACI,SAAS,CAAC,SAAS,GAAT,IAAD,IAAiB,CAAjB,I;QACT,QAAQ,MAAM,M  
AAN,C;QACR,IAAI,SAAS,KAAb,C;UACI,SAAS,SAAS,CAAT,I;aACR,IAAI,WAAU,KAAd,C;UACD,OAAO,M  
;;UAEP,MAAM,SAAS,CAAT,I;;MAEd,OAAO,UAAc,SAAS,KAAb,GAAoB,CAApB,GAA2B,CAArC,K;K;IAG  
X,mC;MAKI,SAAS,S3CCiC,I;M2CA1C,YAAY,kBAaKB,mBAAM,mBAaXB,EAAoC,EAApC,C;MACZ,WAAW  
,KAAK,mBAAM,mBAAN,CAAiB,KAAjB,CAAL,I;MACX,OAAW,OAAO,EAAX,GAAe,IAAf,GAAyB,E;K;IAG  
pC,gC;MAIL,OAAO,6BAAoB,C;K;IC7C/B,kB;MAAA,sB;MAEI,6B;MACA,8B;MACA,gC;MAKuB,UAAT,MAA  
S,EAAT,MAAS,EAAT,M;MAFV,eAAe,kE;MACf,iBAAiB,eAAS,GAAT,C;MACE,sBAAT,QAAS,C;MAAT,mB;  
MAAA,kB;MAAA,kB;MAAV,8C;QACI,WAAW,oBAAS,CAAT,C5C0BuB,I4C1B1C,IAA+B,C;;MAInC,qBAAq  
B,sW;MACrB,WAAW,mBAAmB,cAAnB,EAAmC,UAAnc,EAA+C,GAA/C,C;MACX,YAAY,eAAS,IAAK,OAA  
d,C;MACZ,0BAAU,IAAV,e;QACI,IAAI,QAAC,CAAT,C;UAAY,MAAM,GAAN,IAAW,KAAK,GAAL,C;;UACI  
B,MAAM,GAAN,IAAW,MAAM,MAAI,CAAJ,IAAN,IAAe,KAAK,GAAL,CAAf,I;;MAEpB,yBAAoB,K;MAGpB  
,kBAaKB,0U;MACIB,0BAAqB,mBAAmB,WAAnc,EAAgC,UAAhC,EAA4C,GAA5C,C;MAGrB,oBAAoB,i8B;  
MACpB,4BAAuB,mBAAmB,aAAnB,EAaKc,UAAIC,EAA8C,GAA9C,C;K;;;IA7B/B,8B;MAAA,6B;QAAA,Y;O  
AAA,sB;K;IAiCA,iC;MAIL,OAAO,6BAAmB,C;K;IAG9B,oC;MAIW,wCAAmB,C;MAAnB,U;QAA6B,wB5CRM  
,a4CQN,C;OAApC,W;K;IAGJ,oC;MAIW,wCAAmB,C;MAAnB,U;QAA6B,wB5CfM,a4CeN,C;OAApC,W;K;IAG  
J,kC;MAQI,SAAS,S5C1BiC,I;M4C2B1C,YAAY,kBAaKB,oBAAO,kBAaZB,EAA4C,EAA5C,C;MAEZ,iBAAiB,  
oBAAO,kBAAP,CAAyB,KAAzB,C;MACjB,eAAe,aAAa,oBAAO,mBAAP,CAA0B,KAA1B,CAAb,GAAgD,CAA  
hD,I;MACf,WAAW,oBAAO,qBAAP,CAA4B,KAA5B,C;MAEX,IAAI,KAAK,QAAT,C;QACI,OAAO,C;OAGX,k  
BAaKB,OAAS,C;MAE3B,IAAI,gBAaE,cAAnB,C;QACI,YAAY,C;QACZ,gBAaGB,U;QACHB,aAAU,CAA V,O  
AAa,CAAb,M;UACI,yBAAc,QAAS,KAaV,GAAqB,GAAIC,K;UACA,IAAI,YAAY,EAaHb,C;YACI,OAAO,C;  
WAEX,gBAAS,CAAT,I;UACA,yBAAc,QAAS,KAaV,GAAqB,GAAIC,K;UACA,IAAI,YAAY,EAaHb,C;YACI,  
OAAO,C;WAEX,gBAAS,CAAT,I;;QAEJ,OAAO,C;OAGX,IAAI,QAAQ,CAAZ,C;QACI,OAAO,W;OAGX,eAAg  
B,KAAK,UAAAL,I;MACHB,cAAgB,QAAQ,EAaZ,GAaKB,WAAW,CAA7B,GAAoC,Q;MACHD,OAAQ,SAAU,I  
AAI,OAAJ,IAAV,CAAD,GAA2B,C;K;ICnGtC,0B;MAAA,8B;MACI,+BAA+B,gBAC3B,GAD2B,EACnB,GADm  
B,EACX,GADW,EACH,GADG,EACK,GADL,EACa,GADb,EACqB,GADrB,EAC6B,IAD7B,EACqC,IADrC,EA  
C6C,IAD7C,EACqD,IADrD,EAC6D,IAD7D,EACqE,IADrE,EAC6E,IAD7E,EACqF,IADrF,EAC6F,KAD7F,EAC  
qG,KADrG,EAC6G,KAD7G,EACqH,KADrH,EAC6H,KAD7H,E;MAG/B,gCAAgC,gBAC5B,CAD4B,EACzB,C  
ADyB,EACtB,CADsB,EACnB,CADmB,EACHB,CADgB,EACb,CADa,EACV,CADU,EACP,EADO,EACH,CAD  
G,EACA,EADA,EACI,CADJ,EACO,CADP,EACU,EADV,EACc,EADD,EACKB,EADIB,EACsB,CADtB,EACyB,  
CADzB,EAC4B,CAD5B,EAC+B,CAD/B,EACKC,CADIC,E;K;;;IAJpC,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;IA  
SA,qC;MACI,YAAY,kBAaKB,4BAAe,wBAAjC,EAaKD,SAaID,C;MACZ,OAAO,SAAS,CAAT,IAAc,aAAO,4B  
AAe,wBAAf,CAA+B,KAA/B,IAAwC,4BAAe,yBAAf,CAAgC,KAAhC,CAAxC,IAAP,C;K;ICXzB,qC;MACI,OA  
Ae,IAAR,8BAAgB,IAAhB,KACY,IAAR,8BAAgB,IADpB,C;K;ICCX,wC;M5CiBW,Q;MAAA,I4CXgB,K5CWZ,I  
AAS,CAAT,I4CXY,K5CWE,IAAS,2BAA3B,C;QAAA,OAAsC,qB4CXtB,K5CWsB,C;;Q4CXb,MAAM,8BAA0B,  
mCAAyB,gBAAzB,MAA1B,C;;MAAtC,W;K;ICRJ,sC;MAEI,WAAW,ShDkC+B,I;MgDhC1C,IAAY,GAAR,oBA  
AgB,GAAhB,KAAkC,GAAR,oBAAgB,GAA1C,CAAJ,C;QACI,OAA8B,OAAtB,KAAK,CAAC,OAAO,CAAP,IA  
AD,IAAa,CAAb,IAAL,KAAsB,C;OAGIC,IAAY,IAAR,oBAAgB,IAAhB,KAAkC,IAAR,oBAAgB,IAA1C,CAAJ,  
C;QACI,OAAO,S;OAEX,OAAO,wB;K;ICPX,wC;MxCqTe,WwC7SY,KxC6SZ,IAAS,C;MAAT,S;QAAc,OwC7S  
F,KxC6SE,IAqgHT,gBAAR,iBAAQ,C;OArgHT,U;MAAA,S;QAAA,SAAsC,sBwC7StB,KxC6SsB,C;;QwC7Sb,M

AAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAATc,a;K;IAGJ,wC;MxCsTe,WwC9SY,KxC8SZ,IAAS,C;MAAT,  
S;QAAC,OWC9SF,KxC8SE,IAigHT,gBAAR,iBAAQ,C;OAJgHT,U;MAAA,S;QAAA,SAAsC,sBwC9StB,KxC8Ss  
B,C;;QwC9Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAATc,a;K;IAGJ,wC;MxCuTe,WwC/SY,KxC+SZ  
,IAAS,C;MAAT,S;QAAC,OWC/SF,KxC+SE,IA6/GT,gBAAR,iBAAQ,C;OA7/GT,U;MAAA,S;QAAA,SAAsC,sBw  
C/StB,KxC+SsB,C;;QwC/Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAATc,a;K;IAGJ,wC;MxCwTe,Ww  
ChTY,KxCgTZ,IAAS,C;MAAT,S;QAAC,OWChTF,KxCgTE,IAy/GT,gBAAR,iBAAQ,C;OAZ/GT,U;MAAA,S;QA  
AA,SAAsC,sBwChTtB,KxCgTsB,C;;QwChTb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAATc,a;K;IASO,  
6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;s  
DAC9C,mB;MAAGD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC5D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,  
SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAG  
C,OAAO,E;MACvC,OxCsrBO,UwCtrBA,gBxCsrBR,QAAQ,EwCtrBoB,O3EgOF,KmCsdIB,C;K;yDwCprBX,mB;  
MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAGC,OAAO,E;MACvC,OxCy6BO,cwCz6BA,gBxCy6BR,QA  
AQ,EwCz6BwB,O3E2NN,KmC8sBIB,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FA  
CW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBA  
AY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,  
KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCqqBO,U  
wCrqBA,gBxCqqBR,QAAQ,EwCrqBoB,O3DgNA,KmBqdpB,C;K;yDwCnqBX,mB;MAES,Q;MAAL,IAAI,eAAC  
,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCw5BO,cwCx5BA,gBxCw5BR,QAAQ,EwCx5BwB,O3D2MJ,K  
mB6sBpB,C;K;;IwC96BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBA  
AY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;m  
DAC7D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;  
MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCopBO,UwCppBA,gBxCopBR,QA  
AQ,EwCppBoB,O5EkIA,KoCkhBpB,C;K;yDwClpBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAi  
C,OAAO,E;MACx C,OxCu4BO,cwCv4BA,gBxCu4BR,QAAQ,EwCv4BwB,O5E6HJ,KoC0wBpB,C;K;;IwC75BnB  
,8B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAk  
C,OAAA,gBAAY,U;K;sDAC9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAA,2  
BAAkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC  
,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCmoBO,UwCnoBA,gBxCmoBR,QAAQ,EwCnoBoB,O1EkHE,Kk  
CihBtB,C;K;yDwCjoBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3B  
O,cwCt3BA,gBxCs3BR,QAAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAI  
I,SAAS,SID+BiC,I;MkD9B1C,OAAa,CAAN,gBAAC,EAAd,KACU,EAAN,gBAAC,EADIB,KAEL,OAAM,GAFV,  
KAGI,KAAK,IAAL,KACC,OAAM,IAAN,KACS,IAAN,gBAAC,IADjB,KAEG,OAAM,IAFT,IAGG,OAAM,IAHT  
,IAIG,OAAM,IAJT,IAKG,OAAM,IALT,IAMG,OAAM,KAPV,CAHJ,C;K;;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,w  
B;K;;IAIA,wB;K;;IAKiC,uB;MAAC,oB;QAAA,OAA0B,E;MAA1B,gB;K;;IAEIC,kB;K;;IAqCqC,sB;MAAC,gB;K  
;;IAGCN,4B;MAAC,sB;K;;IAEjC,uB;K;;IA8DmC,4B;MAAC,kB;K;;IAEpC,oB;K;;ICpJA,oB;K;;IAIA,wB;K;;oF7  
DLA,qB;MAKqE,uCoChTb,E;K;iGpCK/C,yB;MAAA,kD;MAAA,4B;QAQsE,mBAAY,SAAZ,C;O;KARtE,C;IAU  
A,iC;MAGI,OAAsB,UAAy,QAAvB,KAAmC,SAA9C,GACe,UAAy,UAD3B,GAGI,gBAAGB,UAAhB,C;K;IAG  
R,qC;MAEI,YoC1B2C,E;MpC2B3C,eAAe,UAAW,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAAy,MAAK,  
QAAS,OAAc,C;MACTb,OAAO,K;K;IAGX,8C;MAQc,Q;MANV,IAAI,KAAM,OAAN,GAAa,UAAW,KAA5B,C;  
QACI,OAAO,gBAAGB,UAAhB,C;OAEX,eAAe,UAAW,W;MAC1B,YAAy,C;MACZ,OAAO,QAAS,UAAhB,C;  
QACI,MAAM,YAAN,EAAM,oBAAN,UAAiB,QAAS,O;;MAE9B,IAAI,QAAQ,KAAM,OAAIB,C;QACI,MAAM,  
KAAN,IAAe,I;OAEEnB,OAAO,K;K;IAIX,yB;MAG6C,sBAAY,OAAZ,E;K;wGAE7C,yB;MAAA,+D;MAAA,gC;Q  
AI0B,gBAaf,gB;QAAqB,aJW5B,W;QIXA,OJYO,SIZoC,Q;O;KAJ/C,C;yGAOA,yB;MAAA,4E;MAAA,gE;MAA  
A,0C;QAIL,qBAAqB,QAArB,C;QAC8B,gBAAvB,eAAa,QAAb,C;QAA6B,aJGpC,W;QIHA,OJIO,SIJ4C,Q;O;KA  
LvD,C;IASA,wB;MAG2C,oBAAU,OAAV,E;K;sGAE3C,yB;MAAA,uE;MAAA,gC;QAI8B,gBAAnB,oB;QAAyB,  
aJVhC,W;QIUA,OJTO,SISwC,Q;O;KAJnD,C;wGAOA,yB;MAAA,wE;MAAA,0C;QAIsc,gBAA3B,mBAAiB,QA  
AjB,C;QAAiC,aJbXc,W;QIiBA,OJhBO,SlgBgD,Q;O;KAJ3D,C;IAQA,qB;MAIuD,oBAAU,IAAV,E;K;sGAEvD,  
yB;MAAA,wE;MAAA,gC;QAIiC,gBAAtB,oB;QAA4B,aJ/BnC,W;QI+BA,OJ9BO,SI8B2C,Q;O;KAJtD,C;uGAOA

,yB;MAAA,uE;MAAA,0C;QAIyC,gBAA9B,mBAAoB,QAApB,C;QAAoC,aJtC3C,W;QIsCA,OJrCO,SiqCmD,Q;  
O;KAJ9D,C;IAQA,mC;MAOqB,Q;MAAA,kC;MAAjB,iBAAc,CAAd,yB;QACI,sBAAK,KAAL,EAAC,KAAd,C;;  
K;IAIR,+B;MAMuD,sBAAQ,4BAAR,C;K;IAEvD,6B;MAIwE,kBAAhB,0B;MAAwB,uB;MAAxB,OJJE7C,W;K;II  
mEX,4B;MAQI,gBAAgB,SAAhB,EAAsB,cAAtB,C;K;IAGJ,2C;MAQI,gBAAgB,SAAhB,EAAsB,UAAtB,C;K;IA  
GJ,2C;MACI,IAAI,IAAK,KAAL,IAAa,CAAjB,C;QAAoB,M;MAEpB,YAAy,YAAy,IAAZ,C;MACZ,gBAAc,KA  
Ad,EAAqB,UAArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAxB,M;QACI,iBAAK,CAAL,EAAU,MAAM,C  
AAN,CAAV,C;K;IAIR,uC;MACI,OAAO,gBAAkB,IAAI,B,O;K;IAGX,iF;MAII,oCAAA,2BAAkB,UAAIB,EAA8B  
,QAA9B,EAAwC,MAAO,OAA/C,C;MACb,gBAAgB,WAAW,UAAx,I;MACHb,oCAAA,2BAAkB,iBAAlB,EAAq  
C,oBAAoB,SAApB,IAArC,EAAoE,WAAy,OAAhF,C;MAEb,IAAI,WAAkB,QAAO,WAAp,CAAIB,IAAyC,WA  
AkB,QAAO,MAAP,CAA/D,C;QACI,eAAsB,MAAY,UAAU,UAAU,EAAqB,QAArB,C;QACtB,WAAy,KAAL,QA  
AJ,EAAC,iBAAd,C;;QAExB,IAAI,WAAW,WAAx,IAA0B,qBAAqB,UAAAnD,C;UACI,iBAAc,CAAd,UAAAsB,SA  
AtB,U;YACI,YAAy,oBAAoB,KAAPB,IAAZ,IAAyC,OAAO,aAAa,KAAb,IAAP,C;;;UAG7C,mBAAC,YAAy,CA  
AZ,IAAd,aAAmC,CAAnC,Y;YACI,YAAy,oBAAoB,OAApB,IAAZ,IAAyC,OAAO,aAAa,OAAb,IAAP,C;;;K;8G  
AMzD,qB;MAEgF,gB;K;kGAehF,yB;MAAA,4D;MAAA,4B;QAC8E,OAAK,aAAL,SAAK,C;O;KADnF,C;sGAI  
A,gC;MAEI,OAAI,SAAJ,GAEL,SAFJ,GAIL,SN83BoB,Q;K;IM13B5B,mC;MAEL,IAAI,QAAQ,CAAZ,C;QACI,oB  
;OAEJ,OAAO,K;K;IAGX,mC;MAEL,IAAI,QAAQ,CAAZ,C;QACI,oB;OAEJ,OAAO,K;K;IAIX,mC;MAIqD,mB;K  
;IAErD,wC;MPzNI,IAAI,EOgOI,YAAy,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAYB,OAAQ,  
WAAjC,C;Q;IOiOd,8C;MAAoE,Y;K;I8D1PV,qC;MAAiC,6B;K;uDAIvF,mB;MACI,qB;MACA,eAAe,e;MACf,O  
AAO,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAT,EAAmB,OAAAnB,CAAJ,C;UACI,QAAS,S;UACT,OAA  
O,I;;MAGf,OAAO,K;K;yDAGX,oB;MAGoB,Q;MAFhB,qB;MACA,eAAe,K;MACC,0B;MAAhB,OAAgB,cAAhB  
,C;QAAgB,yB;QACZ,IAAI,eAAI,OAAJ,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;IAKuC,sE;MAAA,qB;  
QAAE,OAAM,gBAAN,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC,YAA5B,iEAA4B,EAAU,oD  
AAV,C;K;IAKU,sE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAo  
C,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAGxC,Y;MACI,qB;MACA,eAAe,IAAK,W;MACpB,OAAO,QAAS,U  
AAhB,C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MAE8B,OAAA,IAAK,U;K;yDAGnC,Y;K;;IC3CgD,+B;M  
AAiC,oC;MACjF,gBAA8B,C;K;8CAM9B,mB;MAMI,qB;MACA,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I  
;K;mDAGX,2B;MAMc,UACF,M;MANR,oCAAA,4BAAmB,KAAAnB,EAA0B,SAAI1B,C;MAEb,qB;MACA,aAAa,  
K;MACb,cAAc,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAl,eAAJ,EAAI,uBAAJ,WAAc,CA  
Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAf,C;K;IAKiB,  
gE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;IAK  
U,gE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;6C  
AIX,Y;MAAqD,iD;K;mDAErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;  
MAAjB,iBAAc,CAAd,yB;QACI,IAAI,wBAAl,KAAJ,GAAC,OAAd,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;  
sDAGX,mB;MACI,iBAAc,sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAl,KAAJ,GAAC,OAAd,CAAJ,C;UACI,O  
AAO,K;;MAGf,OAAO,E;K;iDAGX,Y;MAA6D,iCAAA,CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K;o  
DAGvE,8B;MAA4E,uCAAQ,IAAR,EAAC,SAAd,EAAyB,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,  
C;MACf,YAAO,UAAU,SAAV,I;MnEuDX,iBAAc,CAAd,UAAAsB,KAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,iB  
;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oCA  
Aa,uBAAC,IAAd,EAAoB,KAAPB,C;K;6CAGxB,Y;MAG+B,OAAA,oCAAA,yBAAGB,IAAhB,C;K;IAG5C,kD;M  
AAA,oB;MACI,eACsB,C;MACTB,cAIqB,E;K;yDAErB,Y;MAAkC,sBAAQ,gB;K;sDAE1C,Y;MAEW,Q;MADP,I  
AAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACTB,eAAO,mBAAP,EAAO,2BAAP,O;MACA,OAAO,wBAAl,WA  
AJ,C;K;wDAGX,Y;MtE5CJ,IAAI,EsE6CU,gBAAQ,EtE7CIB,CAAJ,C;QACI,csE4CwB,sE;QtE3CxB,MAAM,6BA  
AsB,OAAQ,WAA9B,C;OsE6CF,6BAAS,WAAT,C;MACA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,oB;  
MAGmD,wD;MAG3C,oCAAA,4BAAmB,KAAAnB,EAA0B,WAAyB,KAAAnD,C;MACb,eAAa,K;K;iEAGjB,Y;MA  
AsC,sBAAQ,C;K;+DAE9C,Y;MAAgC,mB;K;8DAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MA  
E1B,eAAO,mCAAP,EAAO,YAAP,C;MACA,OAAO,wBAAl,WAAJ,C;K;mEAGX,Y;MAAoC,sBAAQ,CAAR,I;K  
;+DAEpC,mB;MACI,wBAAl,YAAJ,EAAW,OAAx,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtEIFJ,IAAI,  
EsEmFU,gBAAQ,EtEnFIB,CAAJ,C;QACI,csEkFwB,4E;QtEjFxB,MAAM,6BAAsB,OAAQ,WAA9B,C;OsEkFF,w

BAAI,WAAJ,EAAU,OAAV,C;K;;IAIgb,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oC  
AAa,2BAAkB,gBAAIB,EAA6B,OAA7B,EAA5C,WAAK,KAA3C,C;MACb,eAAa,UAAU,gBAAV,I;K;wDAGjB,  
0B;MACI,oCAAA,4BAAmB,KAAmB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAy,KAAZ,IAAJ,EAAuB,OA  
AvB,C;MACL,mC;K;wDAGJ,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mB  
AAy,KAAZ,IAAL,C;K;6DAGX,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,aAAa,WAAK,kB  
AAS,mBAAy,KAAZ,IAAT,C;MACIB,mC;MACA,OAAO,M;K;wDAGX,0B;MACI,oCAAA,2BAAkB,KAAIB,EA  
AyB,YAAzB,C;MAEb,OAAO,WAAK,aAAI,mBAAy,KAAZ,IAAJ,EAAuB,OAAvB,C;K;mGAGO,Y;MAAQ,mB  
;K;2DAE/B,Y;MAA+C,WAAK,iB;K;;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAA6C,I;K;IAIF  
R,oD;MAAC,wB;MAGIC,gBAAqB,K;K;iFAHa,Y;MAAA,yB;K;uGAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eA  
Ae,IAAK,S;MACpB,gBAAc,Q;MACd,OAAO,Q;K;wDAGX,Y;MAA+B,iEAAc,IAAd,C;K;wDAC/B,Y;MAAKC,i  
EAAc,IAAd,C;K;sDACIC,iB;MAA4C,+DAAY,IAAZ,EAakB,KAAIB,C;K;;IAIB5C,8E;MAAA,wE;MAAsC,2CA  
AK,KAAM,IAAX,EAagB,KAAM,MAAtB,C;MAAtC,Y;K;IASBJ,+C;MACsE,6B;K;mEACIE,mB;MAAmD,kCA  
Ac,OAAAd,C;K;IEAEnD,mB;MAAiD,gCAAY,OAAZ,C;K;;yCAIrD,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAA,sD;M  
AAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,mB  
;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAKC,OAAA,0BAAc,U;K;yGACHd,Y;MAA  
yB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5  
B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O  
AAO,I;OAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9B  
1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;OA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA,I  
9E8Q2D,QAAQ,W;M8E9QxF,OAAqB,cAArB,C;QAAqB,wB;QAAf,U9EiMsD,U;Q8EjMjD,Y9E8MiD,Y;Q8E7M  
xD,iBAAI,GAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gC  
AA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAAd,C;K;IAI3C,sH;MAAA,kD;  
K;8GACH,Y;MAAKC,OAAA,0BAAc,U;K;2GACHd,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAAw  
B,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;K  
;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACI,IAAI,8BAAJ,C;QACI,iG;OAoBJ,OAAO,qC;K;gDAGf,e  
;MACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAy,IAAK,O;QACjB,QAAQ,KA  
AM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAy,KAAM,M;UACIB,IAAK,S;UACL,OAAO,K;;MAGf,OA  
AO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3  
B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAagB,KAahB,C;K;4CAGvB,Y;  
MAG+B,OAAA,mCAAY,2BAakB,IAAIB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;MACvD,4BAakC,K;K;gCAk  
BIC,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBA  
AM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;MA  
HpB,qB;MACA,0BAAW,KAAX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAA,OtE8  
BjB,SsE9BI,2D;K;oCAGX,mB;MACI,qB;MACM,oBAAy,MAAK,OAAL,C;MACIB,qC;MACA,OAAO,I;K;sCA  
GX,0B;MACI,qB;MACM,oBAAy,QAAO,mCAAoB,KAAP,CAAP,EAAMC,CAAnC,EAAsC,OAAtC,C;MACIB  
.qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,QMjr  
D0C,YkEgDrD,QIEhDqD,CNirD1C,C;MwEhoDpB,qC;MACA,OAAO,I;K;yCAGX,2B;MACI,qB;MACA,mCAAo  
B,KAAPB,C;MAEA,IAAI,UAAS,SAAb,C;QAAmB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C;QA  
AwB,OAAO,K;MAE3B,IADE,KACf,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAEF,O;QAAK,uBIE7Dq  
D,YkE6D7C,QIE7D6C,CNirD1C,QwEpnD6B,oBxEonD7B,C;;QwEnnDR,uBAAoC,cAA5B,oBAA4B,EAAV,CA  
AU,EAAP,KAAO,CAAY,QIE9DE,YkE8DK,QIE9DL,CkE8DF,EAA4C,cAAN,oBAAM,EAAY,KAAZ,EAAMB,S  
AAmB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACI,qB;MACA,0BAAW,KAAX,C;MACA,qC;M  
ACA,OAAW,UAAS,sBAAb,GACG,oBAAy,MADf,GAGG,oBAAy,QAAO,KAAP,EAAC,CAAd,CAIIB,CAAm  
C,CAAnC,C;K;uCAGR,mB;MAEKb,Q;MADd,qB;MACc,2B;MAAd,mD;QACI,IAAI,4BAAM,KAAN,GAAgB,O  
AAhB,CAAJ,C;UACU,oBAAy,QAAO,KAAP,EAAC,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K;K;8  
CAGX,8B;MACI,qB;MACA,qC;MACM,oBAAy,QAAO,SAAP,EAakB,UAAU,SAAV,IAAIB,C;K;gCAGtB,Y;M  
ACI,qB;MACA,uB9BhHuC,E;M8BiHvC,qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAAY,OAAR,C;K;  
4CAErD,mB;MAAmD,OAAM,YAAN,oBAAM,EAAY,OAAZ,C;K;mCAEzD,Y;MAA0B,uBAAc,oBAAAd,C;K;0C

AE1B,iB;MAGe,UAGL,MAHK,EAMO,M;MAPIB,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACI,OAAO,2D;OAG  
c,gBAAXB,eAAK,SAAL,IAAK,gBAAL,yB;MxEuwBL,UAAU,SAAV,EwEwBsC,KxEuwBtC,EAD+F,CAC/F,E  
ADoH,CACpH,EADuI,gBACvI,C;MwErwBI,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACI,MAAM,SAAN,IAAc,6  
E;OAGIB,OAAO,K;K;kCAGX,Y;MACI,OAAO,EAAS,MAAM,MAAK,oBAAL,C;K;yCAI1B,Y;MACI,IAAI,yBA  
AJ,C;QAAgB,MAAM,oC;K;+CAG1B,iB;MACI,oCAAa,kCAAYB,SAAzB,C;MADoB,Y;K;wDAIrc,iB;MACI,oC  
AAa,mCAA0B,SAA1B,C;MAD6B,Y;K;;IAI9C,+B;MAAA,mD;MAG8B,sB9BRa,E8BQb,C;MAH9B,Y;K;IAKA,  
kD;MAAA,mD;MAIkD,sB9BdP,E8BcO,C;MAJID,Y;K;IAMA,2C;MAAA,mD;MAGqD,sBIENa,YkEMR,QIENQ,  
CkEMb,C;MAHrD,Y;K;ICrBJ,0C;MACI,IAAI,6BAAJ,C;QACU,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAY  
,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,eAAW,UAAx,CAA5D,C;;K;IAMiB,kD;MAAA,uB;QA  
AgB,OAAA,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAFpD,4C;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gC;Q  
ACX,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAY,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,  
UAA5D,C;;K;IAIR,gE;MACI,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACI,UAAU,KAAY,EAAwC,SAAXC,  
EAAmD,UAAU,CAAV,IAAnD,EAAgE,UAAhE,C;Q;IAMiB,gC;MAAgB,OAAE,iBAAF,CAAE,EAAU,CAAV,C;  
K;IAF3C,0B;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAY,E  
AAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,cAA5D,C;;K;;IAaa,kD;MAAoB,QAAC,IAAM,CAAP,KA  
Aa,IAAM,CAAnB,K;K;IARzC,uC;MACI,sC;QAAiC,OAAjC,yB;OACA,4BAA4B,K;MAE5B,YAAAY,E;MAGZ,iB  
AAc,CAAd,UAAsB,GAAtB,U;QAAiC,KAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC;MACX,KAAY,MAAK,UA  
AL,C;MACIB,mBAAc,CAAd,YAAsB,KAAM,OAA5B,Y;QACI,QAAQ,MAAM,UAAQ,CAAR,IAAN,C;QACR,Q  
AAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAc,IAAM,CAApB,KAA0B,KAAC,CAAnC,C;UA  
AsC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACI,aAAa,gBAAmB,KAAM,OAAzB,O;MAC  
b,aAAa,YAAU,KAAY,EAAiB,MAAjB,EAAyB,KAazB,EAAgC,YAAhC,EAA8C,UAA9C,C;MACb,IAAI,WAA  
W,KAaf,C;QACI,aAAU,KAAY,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;Q;IAIId,4D;  
MAEI,IAAI,UAAS,GAAb,C;QACI,OAAO,K;OAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAAhB,I;MACb  
,WAAW,YAAU,KAAY,EAAiB,MAAjB,EAAyB,KAazB,EAAgC,MAAhC,EAAwC,UAAxC,C;MACX,YAAAY,Y  
AAU,KAAY,EAAiB,MAAjB,EAAyB,SAAS,CAAT,IAAzB,EAAqC,GAAR,C,EAA0C,UAA1C,C;MAEZ,aAAiB,S  
AAS,MAAb,GAAqB,KAArB,GAAgC,M;MAG7C,gBAAgB,K;MACHb,iBAAiB,SAAS,CAAT,I;MACjB,aAAU,K  
AAV,OAAiB,GAAjB,M;QAEQ,iBAaA,MAAb,IAAuB,cAAc,GAAR,C;UACI,gBAAgB,KAAC,SAAL,C;UACb  
,iBAAiB,MAAM,UAAN,C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAnB,CAAX,IAA6C,CAAjD,C;YACI  
,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAaA,MAAb,C;UACI,OA  
AO,CAAP,IAAY,KAAC,SAAL,C;UACZ,6B;;UGA,OAAO,CAAP,IAAY,MAAM,UAAN,C;UACZ,+B;;MAMZ  
,OAAO,M;K;ICrGX,4C;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAAkB,OAAO,C;MACzB,aAAa,C;MACb,  
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,I1BFiC,MAAa,Y0BEnC,O1BFm  
C,C0BE9C,C;YAAwD,iCAAhC,OAAgC,C;iBAExD,uC;YAAmC,2BAAR,OAAQ,C;eACnC,wC;YAAmC,2BAAR  
,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,OAAQ,C;;YAEA,kBAAR,OAAQ,  
C;;QATvC,wB;QAYA,SAAS,MAAK,MAAL,QAAC,WAAAd,I;;MAEb,OAAO,M;K;;ICTP,uC;MAAA,2C;K;2DAC  
I,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAA,wEAAqB,C;K;;IAHtE,mD;MAAA,kD;QAA  
A,iC;OAAA,2C;K;;MC0BA,iC;MAKA,8B;MA6CA,0BAAmE,I;;IAzEnE,kC;MAAA,oB;MAA+B,8C;K;2CAE3B,  
mB;MAAYD,MAAM,qCAA8B,iCAA9B,C;K;uCAC/D,Y;MACI,WAAa,Q;K;uDAGjB,mB;MAAgE,OAAA,WAAa  
,uBAAc,OAAd,C;K;0CAE7E,Y;MAAwE,OAAA,iCAAY,W;K;qDAEpF,mB;MACI,IAAI,iBAAS,OAAT,CAAJ,C;  
QACI,WAAa,cAAO,OAAQ,IAAf,C;QACb,OAAO,I;OAEX,OAAO,K;K;wFAGY,Y;MAAQ,OAAA,WAAa,K;K;;  
8BA6ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAmD,OAAA,0BAAY,gBAAS,GAAT,C;K;4CAE/D,iB;MAAmE,  
gBAAZ,0B;MAAY,c;;QvE+mDnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAp,e;SACrB,2B;  
QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuE/mDmD,uBAAS,gBvE+mD9C,OuE/mDwD,MAAV,QvE+mD  
5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;MuEhnDgD,iB;K;kFAInD,Y;MACI,IAAI,+BAAJ,C;QACI,0  
BAAW,qB;OAEf,OAAO,sC;K;uCAGf,Y;MAAgF,iC;K;kCAEHf,e;MAA+C,OAAA,0BAAY,WAAI,GAAJ,C;K;o  
CAE3D,sB;MAAgD,OAAA,0BAAY,aAAI,GAAJ,EAAS,KAAT,C;K;qCAE5D,e;MAAyC,OAAA,0BAAY,cAAO,  
GAAP,C;K;+EAEvB,Y;MAAQ,OAAA,0BAAY,K;K;;IA5DID,0C;MAAA,iD;MAAuD,8B;MAvC3D,mB;MAwCQ  
,8BAAmB,W;MACnB,2BAAgB,WAAAY,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MAGuB,aAAK,kEAAL,Q;MAHvB

,Y;K;IAKA,4D;MAAA,iD;MAQ8D,qB;M7EpC9D,IAAI,E6EsCQ,mBAAMb,C7EtC3B,CAAJ,C;QACI,c6EqCgC,+C;Q7EpChC,MAAM,gCAAYb,OAAQ,WAAjC,C;OAFV,IAAI,E6EuCQ,cAAc,C7EvCtB,CAAJ,C;QACI,gB6EsC2B,yC;Q7ErC3B,MAAM,gCAAYb,SAAQ,WAAjC,C;O6E0BV,Y;K;IAcA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAAAtB,Q;MAA3C,Y;K;IAGA,yC;MAAA,iD;MAG8C,qB;MAC1C,KAAK,gBAAO,QAAP,C;MAJT,Y;K;IAqCJ,4B;MAK8E,gBAAnE,aAAmB,gEAAAnB,C;MAA2E,wB;MAAIF,O1EvCO,S;K;;M2EjEP,uB;;kCAyCA,mB;MACI,UAAU,gBAAI,aAAI,OAAJ,EAAa,IAAb,C;MACd,OAAO,W;K;8BAGX,Y;MACI,gBAAI,Q;K;uCAOR,mB;MAA6D,OAAA,gBAAI,mBAAY,OAAZ,C;K;gCAEjE,Y;MAAYC,OAAA,gBAAI,U;K;iCAE7C,Y;MAAqD,OAAA,gBAAI,KAAK,W;K;qCAE9D,mB;MAAkD,OAAA,gBAAI,cAAO,OAAP,CAAJ,Q;K;+EAEpB,Y;MAAQ,OAAA,gBAAI,K;K;;IA5D1C,6B;MAAA,iD;MAGoB,8B;MAZxB,mB;MAaQ,oBAAM,gB;MAJV,Y;K;IAOA,yC;MAAA,iD;MAG2C,8B;MANb/C,mB;MAoBQ,oBAAM,eAAgB,QAAS,KAAzB,C;MACN,qBAAO,QAAP,C;MALJ,Y;K;IAQA,4D;MAAA,iD;MAQ2D,8B;MAhC/D,mB;MAiCQ,oBAAM,eAAgB,eAAhB,EAAiC,UAAjC,C;MATV,Y;K;IAYA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAAAtB,Q;MAA3C,Y;K;IAEA,oC;MAAA,iD;MAM0C,8B;MA5C9C,mB;MA6CQ,oBAAW,G;MAPf,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAoC,6B;MAA3C,O3ENO,S;K;I4EzD6B,uC;MAAC,kC;MAErC,oBAAkC,kB;MACIC,sBAAYB,C;K;2EAHY,Y;MAAA,8B;K;2FAGRc,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;gDAGA,sB;MACI,eAAe,aAAS,qBAA Y,GAAZ,C;MACxB,mBAAM B,6BAAsB,QAAtB,C;MACnB,IAAI,oBAAJ,C;QAEI,kBAAW,QAAX,IAAuB,mCAAY,GAAZ,EAAiB,KAAjB,C;QAEvB,IAAI,6BAAJ,C;UAEI,YAA+B,Y;UAC/B,IAAI,aAAS,gBAAO,KAAM,IAAb,EAakB,GAAIB,CAAb,C;YACI,OAAO,KAAM,gBAAS,KAAT,C;;YAEb,kBAAW,QAAX,IAAuB,CAAQ,KAAR,EAAe,mCAAY,GAAZ,EAAiB,KAAjB,CAAf,C;YACvB,6B;YACA,OAAO,I;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KAAM,EAAiB,GAAjB,C;UACIB,IAAI,eAAJ,C;YACI,OAAO,OAAM,gBAAS,KAAT,C;WAEX,KAA Y,MAAK,mCAAY,GAAZ,EAAiB,KAAjB,CAAL,C;;MAG1B,6B;MAEA,OAAO,I;K;iDAGX,e;MAEuB,Q;MADnB,eAAe,aAAS,qBAA Y,GAAZ,C;MACL,oCAAsB,QAAtB,C;MAAA,iB;QAAMC,OAAO,I;OAA7D,mBAAMb,I;MACnB,IAAI,6BAAJ,C;QACI,YAAgC,Y;QACHC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAakB,GAAIB,CAAb,C;U5BzDR,O4B0D6B,iB5B1DvB,C4B0DmC,Q5B1DnC,C;U4B2DM,6B;UACA,OAAO,KAAM,M;;UAEb,OAAO,I;;QAGX,YAAuC,Y;QACvC,8BAAc,KAAAd,iB;UACI,cAA Y,MAAM,KAAN,C;UACZ,IAAI,aAAS,gBAAO,GAAP,EAAY,OAAM,IAAIB,CAAb,C;YACI,IAAI,KAAM,OAAN,KAAc,CAAIB,C;cACU,KAAN,UAA2B,C;c5BtE/C,O4BwEqC,iB5BxE/B,C4BwE2C,Q5BxE3C,C;;c4B2EoB,KAA Y,QA AO,KAAP,EAAC,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAAM,M;;MAIzB,OAAO,I;K;OCAGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAYC,uBAAS,GAAT,S;K;8CAEzC,e;MAA+B,Q;MAAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAA Y,GAAZ,CAA/B,C;MAAA,iB;QAAoD,OAAO,I;OAA9E,mBAAMb,I;MACnB,IAAI,6BAAJ,C;QACI,YAAgC,Y;QACHC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAakB,GAAIB,CAAb,C;UACI,OAAO,K;;UAEP,OAAO,I;;QAGX,YAAuC,Y;QACvC,OAAa,wBAAN,KAAM,EAAiB,GAAjB,C;;K;uDAlrB,0B;MACI,sB;;Q7F+nCY,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAAsB,I6F/nCK,aAAS,gB7F+nCA,O6F/nCa,IAAb,M7F+nCd,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;M6FhoCH,yB;K;IAIO,8E;MAAA,wD;MACH,aAA Y,E;MAEZ,YAA0B,MAAA,MAAK,qCAAL,C;MACvC,gBA Ae,E;MAEf,oBAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MACHb,iBAAqC,I;K;yEAErC,Y;MACI,IAAI,6BAAwB,YAA5B,C;QACI,gBAAqB,iBAAqD,O;QAC1E,IAAI,4DAAC,SAAlB,C;UACI,OAAO,C;OAGf,IAAI,yDAAa,SAAK,OAAtB,C;QACI,oBAAe,2CAAW,UAAK,aAAL,CAAX,C;QACf,eAAU,iC;QACV,iBAA Y,C;QACZ,OAAO,C;;QAEp,oBAAe,I;QACf,OAAO,C;;K;mEAI,f,Y;MACI,IAAI,eAAS,EAAb,C;QACI,aAAQ,oB;MACZ,OAAO,eAAS,C;K;gEAGpB,Y;MAEOB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MACN,IAAI,YAAJ,C;QACZ,yBAAqD,cAArD,C;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBAAiB,S;MACjB,aAAQ,E;MACR,OAAO,S;K;kEAGX,Y;M/E/CR,I+EgDyB,c/EhDrB,QA AJ,C;QACI,cAhByB,0B;QAiBzB,MAAM,6BAAsB,OAAQ,WAA9B,C;O+E+CE,6BAAyB,cAAO,6BAA Y,IAAnB,C;MACzB,iBAA Y,I;MAEZ,uC;K;;6CatDZ,Y;MAEI,2D;K;4DAyDJ,oB;MACI,mBAAMb,kBAAW,QAAX,C;MACnB,OAAW,iBAAiB,SAArB,GAAgC,IAAhC,GAA0C,Y;K;;;wCCtKrD,Y;MACI,aAAR,MAAM,OAAe,CAAP,IAAO,C;MAEb,OAAO,KAAP,IAAgB,C;M7BXpB,O6BYqB,M7Bzf,C6BYuB,K7BzvB,C;M6BaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAAkC,kB;MACIC,sBAAYB,C;K;yEAHU,Y;MAAA,8B;K;yFAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iDAWA,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,K;MAC3B,OAAO,kBAAW,GAAX,MAAoB,S;K;4CAG/B,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAA Y,kBAAW,GAAX,C;MACZ,OAAW,UAAU,SAArB,GAAgC,KAAhC,GAA2D,I;K;8CAI/D,sB;MjFVA,IAAI



.EiFWQ,uBjFXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;OiFUN,eAAe,kBAAW,GA  
AX,C;MACf,kBAAW,GAAX,IAAkB,K;MAEIB,IAAI,aAAa,SAAJB,C;QACI,6B;QAEA,OAAO,I;;QAGP,OAAO,  
Q;;K;+CAIf,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,IAAI,UAAU,S  
AAAd,C;Q9BnDj,O8BoDyB,iB9BpDnB,C8BoD+B,G9BpD/B,C;Q8BqDE,6B;QAEA,OAAO,K;;QAGP,OAAO,I;;K  
;wCAkf,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;IAKA,0E;MAAA,oD;MACH,cAAkC,MAAa,MAAK,mCAAL,C  
;MAC/C,kBAA4B,qBAAL,WAAK,C;MAC5B,iBAA+B,I;K;IEAE/B,Y;MAAKC,OAAA,eAAS,U;K;8DAE3C,Y;M  
AluB,gB;MAHnB,UAAU,eAAS,O;MACnB,iBAAU,G;MAES,+E;MAAnB,OAAO,iD;K;gEAGX,Y;MAEkC,UAA  
9B,M;MAAA,oC;MAA8B,YAAa,c;MjFchD,uB;MAeP,IAfoB,KAEhB,QAAJ,C;QACI,cAhByB,0B;QAIbZB,MAA  
M,6BAAsB,OAAQ,WAA9B,C;;QAEN,sBAnBgB,K;;MiFde,oBAAO,sFAAP,C;K;;2CAjBnC,Y;MACI,yD;K;IAqB  
kD,0F;MAAA,8B;MAAA,oD;K;kHAC9B,Y;MAAQ,uB;K;oHACN,Y;MAAQ,6CAAuB,gBAAvB,C;K;2EAE9B,o  
B;MAAwC,OAAA,2BAAuB,aAAI,gBAAJ,EAAS,QAAT,C;K;qEAE/D,Y;MAA+B,OAAA,mCAAY,uBAAC,IAAd  
,C;K;qEAC3C,Y;MAAKC,OAAA,mCAAY,uBAAC,IAAd,C;K;mEAC9C,iB;MAA4C,OAAA,mCAAY,qBAAY,IA  
AZ,EAakB,KAAIB,C;K;;gDAR5D,e;MAAsD,iE;K;;MCItD,sBAOsC,I;MA6CtC,yB;MAOA,4BAakC,K;;IArIE,s  
D;MAZpC,oB;MAYyD,0CAAqC,GAARc,EAA0C,KAA1C,C;MACrD,oBAAuC,I;MACvC,oBAAuC,I;K;wDAEv  
C,oB;MACI,WAAmB,iB;MACnB,OAAa,mEAAS,QAAT,C;K;;IAIrB,wC;MAAA,oB;MAA+B,8C;K;IAE3B,sD;M  
AAA,oB;MACI,cACsC,I;MAEtC,cACsC,I;MAGIC,cAAO,iC;K;6DAIX,Y;MACI,OAAO,gBAAS,I;K;0DAGpB,Y;  
MAEI,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MAEtB,cAAc,0B;MACd,cAAO,O;MACa,gBAAb,OAAQ,a;;M  
AAf,c/E0DS,S+E1DoB,KAAO,iC/E0DzC,GAAqB,SAArB,GAA+B,I;M+EzD1B,OAAO,O;K;4DAGX,Y;MIFwBR  
,IAAI,EkFvBc,eAAQ,IIFuBtB,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkFxBE,WA  
Ac,iB;MAGP,oCAAP,0BAAO,C;MACP,gCAAI,cAAO,0BAAO,IAAd,C;MAEJ,cAAO,I;K;;iDAIf,mB;MAAyD,M  
AAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACI,WAAmB,Q;K;6DAGvB,mB;MAAgE,OAAA,WAAmB,uBAAC,  
OAAAd,C;K;gDAEnF,Y;MAAwE,qD;K;2DAExE,mB;MACI,qB;MACA,IAAI,iBAAS,OAAT,CAAJ,C;QACI,WAA  
mB,cAAO,OAAQ,IAAf,C;QACnB,OAAO,I;OAEX,OAAO,K;K;8FAGY,Y;MAAQ,OAAA,WAAmB,K;K;sDAEI  
D,Y;MAAsC,WAAmB,iB;K;;iDAa7D,qB;MIFrBA,IAAI,EkF0BM,0BAAQ,IAAR,IAAgB,0BAAQ,IIF1B9B,CAAJ  
,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkF0BN,YAAY,mB;MACZ,IAAI,SAAS,IAAb,C;  
QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;QlFIBhC,uB;QAeP,IAfoB,KAEhB,  
QAAJ,C;UACI,gBAhByB,0B;UAIbZB,MAAM,6BAAsB,SAAQ,WAA9B,C;;UAEN,sBAnBgB,K;;QkFkZB,+B;Q  
AEA,yBAAO,K;QACP,yBAAO,K;QAEP,qBAAa,S;QACb,qBAAa,S;;K;+CAIrB,qB;MAII,IAAI,SAAK,aAAL,KA  
Ac,SAAIb,C;QAEI,sBAAO,I;;QAEP,IAAI,wBAAS,SAAb,C;UAEI,sBAAO,sB;SAEX,qDAAC,sB;QACd,qDAAC,s  
B;;MAEIB,yBAAO,I;MACP,yBAAO,I;K;oCA8CX,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;oCAGX,Y;  
MACI,qB;MACA,kBAAL,Q;MACJ,sBAAO,I;K;gDASX,e;MAAmD,OAAA,kBAAL,mBAAY,GAZC,C;K;kDAEv  
D,iB;MACiC,Q;MAAA,0B;MAAA,iB;QAAQ,OAAO,K;OAA5C,WAA6B,I;;QAEzB,IAAI,OAAA,IAAK,MAAL,  
EAAC,KAAAd,CAAJ,C;UACI,OAAO,I;SAEX,OAAO,cAAA,IAAK,aAAL,C;;MACF,iBAAS,mBAAT,C;MACT,O  
AAO,K;K;6CAIX,Y;MAAoF,uC;K;wCAEpF,e;MAAmD,Q;MAAJ,QAAI,OAAJ,kBAAL,WAAI,GAJJ,CAAJ,6B;  
K;0CAE/C,sB;MACI,qB;MAEA,UAAU,kBAAL,WAAI,GAJJ,C;MACd,IAAI,OAAO,IAAX,C;QACI,eAAe,mCA  
AW,GAAX,EAAGB,KAAhB,C;QACf,kBAAL,aAAI,GAJJ,EAAS,QAAT,C;QACK,wBAAT,QAAS,C;QACT,OA  
AO,I;;QAEP,OAAO,GAAL,gBAAS,KAAT,C;;K;2CAInB,e;MACI,qB;MAEA,YAAY,kBAAL,cAAO,GAAP,C;MA  
ChB,IAAI,SAAS,IAAb,C;QACU,sBAAN,KAAM,C;QACN,OAAO,KAAM,M;OAEjB,OAAO,I;K;qFAGmB,Y;M  
AAQ,OAAA,kBAAL,K;K;6CAE1C,Y;MACI,IAAI,yBAAJ,C;QAAGB,MAAM,oC;K;;IANg1B,mC;MAAA,uD;MA  
GuB,qB;MA9J3B,yB;MA+JQ,sBAAM,gB;MAJV,Y;K;IAOA,iD;MAAA,uD;MAAoD,qB;MAIKxD,yB;MAoKc,Q;  
MAAN,sBAAM,+D;MAFV,Y;K;IAKA,kE;MAAA,uD;MAQ8D,eAAM,eAAN,EAAuB,UAAvB,Q;MA/KIE,yB;M  
AgLQ,sBAAM,gB;MATV,Y;K;IAYA,sD;MAAA,uD;MAA2C,qBAAK,eAAL,EAAsB,GAATB,Q;MAA3C,Y;K;IA  
EA,+C;MAAA,uD;MAG2C,qB;MaxL/C,yB;MAyLQ,sBAAM,gB;MACN,KAak,gBAAO,QAAP,C;MALT,Y;K;I  
A6EJ,kC;MAKwD,gBAA7C,qBAAYB,eAAzB,C;MAAqD,wB;MAA5D,O/EjMO,S;K;;oCgFvCP,Y;MAEK,Q;MA  
A8B,CAA9B,2EAA8B,S;MAC/B,OAAO,I;K;6CAGX,Y;MAA+C,gBAAL,iB;K;;IAhCnD,wC;MAAA,uD;MAAmD  
,eAAM,GAAN,Q;MAPvD,yB;MAOI,Y;K;IAEA,qC;MAAA,uD;MAGuB,eAAM,oBAAN,Q;MAZ3B,yB;MASI,Y;  
K;IAKA,+C;MAAA,uD;MAG8C,eAAM,oBAAN,Q;MAjBID,yB;MAkBQ,qBAAO,QAAP,C;MAJJ,Y;K;IAOA,kE;  
MAAA,uD;MAQ8D,eAAM,qBAAsB,eAAtB,EAAuC,UAAvC,CAAN,Q;MA7BIE,yB;MAqBI,Y;K;IAUA,sD;MA

AA,uD;MAA2C,qBAAK,eAAL,EAAaB,GAAtB,Q;MAA3C,Y;K;IAGBJ,qC;MAKmD,gBAAxC,mBAAc,qBAAd,C;MAAgD,6B;MAAvD,OhFoBO,S;K;::;kFiFzEX,uB;MAQI,OAAO,O;K;ICXX,sB;K;mCACI,Y;MACI,mBAAM,IAAN,C;K;2CAGJ,mB;MACI,mBAAM,OAAN,C;MACA,c;K;iCAKJ,Y;K;IAKuB,oC;MAA8B,qB;MAA7B,gC;K;2CACxB,mB;MAEI,oBA+DyC,OA/Dd,OA+Dc,C;MA9DzC,iBAAa,OAAM,aAAN,C;K;IAIrB,8B;MAEOc,qB;K;iDACHC,mB;MACI,OAAQ,KAAI,OAAJ,C;K;mDAGZ,mB;MACI,OAAQ,KAAI,OAAJ,C;K;2CAGZ,Y;MACI,OAAQ,KAAI,EAAJ,C;K;IAIhB,0B;MAEqC,qB;MACjC,cAAa,E;K;6CAEb,mB;MACI,eAoCyC,OApCxB,OAOcWb,C;K;qCAjC7C,Y;MACI,cAAS,E;K;IAIjB,sC;MAE4C,yB;K;yDACxC,mB;MACI,QAwByC,OAxB1B,OAwb0B,C;MAvBzC,QAAQ,CxEqJoF,awErJhE,IxEqJgE,EwErJ1D,CxEqJ0D,C;MwEpJ5F,IAAI,KAAC,CAAT,C;QACI,4BAAU,CxE+J0E,WwE/J9D,CxE+J8D,EwE/J3D,CxE+J2D,C;QwE9JpF,Y;QACA,IAAI,CxE0JiE,WwE1JrD,IAAI,CAAJ,IxE0JqD,C;OwExJzE,4BAAU,C;K;iDAGd,Y;MACI,OAAQ,KAAI,WAAJ,C;MACR,cAAS,E;K;IAWjB,yB;MACiD,cAAa,KAAb,C;K;IAEjD,mB;MAEI,MAAO,U;K;IAGX,4B;MAEI,MAAO,iBAAQ,OAAR,C;K;IAGX,wB;MAEI,MAAO,eAAM,OAAN,C;K;IAGX,kB;MACqC,MAAM,qCAA8B,sCAA9B,C;K;IAE3C,wB;MAC4C,MAAM,qCAA8B,4CAA9B,C;K;ICIGiD,mD;MACI,0B;MASA,gBAA2B,a;K;2FAFvB,Y;MAAQ,OAAA,eAAS,Q;K;oDAIrB,kB;MACI,UAAU,IAAK,S;MAEX,YAAQ,2CAAR,C;QACI,gBAAc,MAAO,M;WAEzB,YAAQ,yBAAR,C;QACI,gBAAc,yC;QACd,eAAS,oBAAW,MAAX,C;QAEL,MAAM,6BAAaB,iBAAtB,C;K;4CAItB,Y;MAOW,Q;MALP,IAAI,kBAAW,2CAAF,C;QACI,gBAAS,yB;QACT,OAAO,yB;OAEX,aAAa,IAAK,S;MAEd,eAAW,yCAAX,C;QAAsB,gC;WACTB,0C;QAA4B,MAAM,MAAO,U;QACjC,a;MAHZ,W;K;IA7BJ,gD;MAAA,0D;MACyD,6BAAK,QAAL,EAAe,2CAAF,C;MADzD,Y;K;ICRA,2C;MAAA,+D;MAAuB,iC;MAF3B,iC;MAEI,Y;K;IACA,sD;MAAA,+D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;IACA,6D;MAAA,+D;MAAmD,kCAAM,OAAN,EAAe,KAAf,C;MAJvD,iC;MAII,Y;K;IACA,oD;MAAA,+D;MAAiC,6BAAM,KAAN,Q;MALrC,iC;MAKI,Y;K;Ix C4CJ,yE;MASI,sC;MAAA,4C;K;IATJ,iGAWY,Y;MAAQ,2B;KAXpB,E;IAAA,0DAaQ,kB;MACI,wBAAW,MAAX,C;K;IADz,Sf;IyC5C2E,0C;M1CkKhE,Q;MADP,e0ChKA,M1CgKA,C;MACO,Q0CjKP,M1CiKO,+D;M0ChKX,W;K;+FCuHA,gB;MACI,aAAa,IAAb,MAAa,E;MACb,KAAC,MAAL,C;MACA,OAAO,M;K;wFC3HX,yB;MAAA,uD;MAAA,wC;QAWqG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,C;O;KAX1G,C;wFAaA,yB;MAAA,uD;MAAA,wC;QAWoG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,C;O;KAXzG,C;8ECbA,yB;MAAA,6C;MAAA,sC;QAOyD,OAAK,SAAL,SAAK,EAAy,QAAZ,C;O;KAP9D,C;8EASA,yB;MAAA,6C;MAAA,wC;QAWkE,OAAK,SAAL,SAAK,EAAa,UAAb,S;O;KAXvE,C;oFAaA,yB;MAAA,mD;MAAA,wC;QAWqE,OAAK,YAAL,SAAK,EAAgB,UAAhB,S;O;KAX1E,C;kFCZI,yB;MAAA,iD;MAAA,4B;QAAe,OAAK,WAAL,SAAK,C;O;KAApB,C;wFAYA,yB;MAAA,uD;MAAA,4B;QAAe,OAAK,cAAL,SAAK,C;O;KAApB,C;IC5BJ,gC;MAAoE,gCAAqB,OAArB,C;K;IAEIC,uC;MAAC,wB;K;iDAC/B,iB;MACI,eAAQ,KAAR,C;K;8CAGJ,Y;MAAyC,iCAAuB,cAAvB,M;K;ICCO,6C;MAAA,8B;MAAS,uB;K;8FACIC,Y;MAAQ,OAAA,gBAAY,O;K;mDAE3C,iB;MACI,IA DoC,KACpC,IAAG,CAAH,IADoC,KACpC,IAAM,sBAAN,C;QAD8B,OACX,gBAAY,MAAK,KAAL,C;QACvB,MAAM,8BAA0B,WAAQ,KAAR,6BAAmC,sBAAnC,MAA1B,C;K;IARtB,8B;MAGoD,4C;K;wECFpD,yB;MAAA,uC;MAAA,4B;QAOsC,MAAL,SAAK,C;O;KAPtC,C;kFASA,yB;MAAA,iD;MAAA,kC;QAWuD,OAAK,WAAL,SAAK,EAAc,IAAd,C;O;KAX5D,C;+ECfA,qB;MAI8C,gB;K;iFAE9C,qB;MAIsE,OAAK,S;K;kFAE3E,qB;MAMyE,gB;K;IAEzE,6B;MAiBa,UAPF,M;MAFP,QAAc,S;MAGV,cAAK,UAAU,U;QACI,mBAAK,UAAU,G;QACJ,./CzBqC,MAAA,Y+CyBvC,C/CzBuC,C+CyBID,C;UAC6B,8BAAzB,CAAYB,C;UAGN,UAAIB,uDAAkB,Y;MAP3B,a;K;IC9BJ,2B;MAEI,MAAM,yBAAqB,OAArB,C;K;IAGV,sB;MAEI,MAAM,uBAAmB,cAAAnB,C;K;IAGV,2B;MAEI,MAAM,6BAAaB,OAAtB,C;K;IAGV,iC;MAEI,MAAM,4CAAqC,uBAAqB,YAArB,8BAArC,C;K;ICIBV,8B;MC8CW,kB1GqBiD,oB;M0GM9C,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,sBAAM,CAAN,C;QACV,kBAAkB,sBAAY,GAAZ,C;QAKFiD,U;QAJFnE,W1GuKJ,a0GvKgB,G1GuKhB,EyG1OoB,CCmEkC,uBAAuB,CAAC,WAAy,mBAAy,GAAZ,CAiFhD,GDPJrC,CCoJqC,GAA6B,UAJFjC,WaIFiC,6DDpJnD,IAAM,CAAN,IzG0OpB,C;MyG1OA,OCqEO,W;K;ICjCX,qB;MAK0B,Q;MADtB,UAAmB,E;MACnB,wBAAaB,KAAAtB,gB;QAAsB,aAAA,KAAAtB,M;QAAK,IAAC,0BAAD,EAAO,2B;QACR,IAAI,IAAJ,IAAY,K;MAEhB,OAAO,G;K;IAGX,+B;MAMgB,Q;MADZ,WAA0B,MAAa,MAAK,KAAL,C;MACvC,wBAAY,IAAZ,gB;QAA Y,UAAA,IAAZ,M;QACI,IAAU,KAAy,gBAAe,GAaf,CAAtB,C;UACI,UAAK,GAAL,IAAY,MAAM,GAAN,C;MAGpB,OAAO,S;K;qEC5DX,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;qEASA,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;qEASA,yB;MAAA,iB;MA

AA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;uEASA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;yEAWA,yB;MAAA,iB;MAAA,uB;QAKB+D,OAAA,MAAW,OAAM,CAAN,EAAS,CAAT,C;O;KAIB1E,C;uEAoBA,yB;MAAA,iB;MAAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;uEAYA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAYoD,OAAA,MAAW,OAAM,CAAN,C;O;KAZ/D,C;yEAca,yB;MAAA,iB;MAAA,oB;QAYoD,OAAA,MAAW,OAAM,CAAN,C;O;KAZ/D,C;yEAca,yB;MAAA,iB;MAAA,oB;QAaoD,OAAA,MAAW,OAAM,CAAN,C;O;KAb/D,C;yEAea,yB;MAAA,iB;MAAA,uB;QAS+D,OAAA,MAAW,OAAM,CAAN,EAAS,CAAT,C;O;KATIE,C;uEAWA,yB;MAAA,iB;MAAA,oB;QAQmD,OAAA,MAAW,MAAK,CAAL,C;O;KAR9D,C;qEAUA,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAV7D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QacoD,OAAA,MAAW,OAAM,CAAN,C;O;Kad/D,C;IagBA,sB;MAcI,IAAI,QAAQ,GAAR,IAAe,SAAQ,GAA3B,C;QAAgC,OAAO,wCAAO,I;MAC9C,OAAO,IAAW,KAAI,CAAJ,CAAX,GAAoB,IAAW,KAAI,IAAJ,C;K;mEAG1C,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,MAAW,KAAI,CAAJ,C;O;KAX5D,C;yEAaA,yB;MAAA,iB;MAAA,oB;QAOoD,OAAA,MAAW,OAAM,CAAN,C;O;KAP/D,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOmD,OAAA,MAAW,MAAK,CAAL,C;O;KAP9D,C;uEASA,yB;MAAA,iB;MAAA,oB;QAgBmD,OAAA,MAAW,OAAM,CAAN,C;O;KAhB9D,C;uEakBA,yB;MAAA,iB;MAAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAUoD,OAAA,MAAW,OAAM,CAAN,C;O;KAV/D,C;+EAYA,yB;MAAA,iB;MAAA,oB;QAUuD,OAAA,MAAW,OAAM,CAAN,C;O;KAVIE,C;IAYA,kB;MAQI,IAAI,IAAI,GAAJ,KAAW,GAAf,C;QACI,OAAO,IAAW,OAAM,CAAN,C;OAEtB,YAzBgD,MAAW,OAYBzC,CAzByC,C;MA0B3D,OAAW,QAAQ,CAAR,KAAa,GAAxB,GAA6B,KAA7B,GAtC+C,MAAW,MAcCb,CAtCa,C;K;qEAyC9D,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAV7D,C;uEAYA,yB;MAAA,iB;MAAA,oB;QAWmD,OAAA,MAAW,MAAK,CAAL,C;O;KAX9D,C;wEAcA,yB;MAAA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;wEASA,yB;MAAA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;qEAWA,yB;MAAA,iB;MAAA,+B;QAayD,OAAA,MAAW,KAAI,SAAJ,EAAU,CAAV,C;O;KAbpE,C;uEAea,yB;MAAA,iB;MAAA,+B;QAOsD,OAAA,MAAW,KAAI,SAAJ,EAAY,CAAZ,C;O;KAPjE,C;iGAmBsD,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAW,KAAI,SAAJ,C;O;KAAAnB,C;+EAaT,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAW,MAAK,SAAL,C;O;KAAAnB,C;iFAE7C,yB;MAAA,6C;MAAA,kC;QAK8D,OAAK,SAAL,SAAK,EAAC,IAAd,C;O;KALnE,C;IAkBqC,4B;MACjC,gBAAO,CAAP,C;QADyC,OACrB,QAAP,CAAC,SAAM,C;WACpB,IAAK,QAAL,SAAK,CAAL,IAAgB,cAAQ,wCAAO,kBAA/B,C;QAFyC,OAEW,S;WACpD,kBAAQ,wCAAO,UAAf,C;QAHyC,OAGb,YAAY,SAAL,SAAK,C;QAHc,OAI5B,OAAL,SAAK,CAAL,GAAgB,S;K;IAG5B,2B;MAKI,IAAK,QAAL,SAAK,CAAL,IAAgB,cAAQ,wCAAO,kBAA/B,C;QADwC,OACY,S;WACpD,kBAAQ,GAAR,C;QAFwC,OAEzB,wCAAO,U;QACP,WAAc,UAAAL,SAAK,CAAL,yBAAuB,YAAO,CAAX,GAAc,CAAd,GAAqB,EAAX,C,E;QAHgB,OhDhb6B,MAAa,gBAAe,IAAf,C;K;IgdSbtF,6B;MAKI,IAAK,QAAL,SAAK,CAAL,IAAgB,cAAQ,wCAAO,kBAA/B,C;QAD0C,OACU,S;WACpD,kBAAQ,GAAR,C;QAF0C,OAE3B,CAAC,wCAAO,U;QACR,WAAc,UAAAL,SAAK,CAAL,yBAAuB,YAAO,CAAX,GAAc,EAAd,GAAsB,CAAZ,C,E;QAHkB,OhD1b2B,MAAa,gBAAe,IAAf,C;K;IgdictF,oC;MAUI,IAAK,QAAL,SAAK,CAAL,IAAmB,QA AH,EAAG,CAAnB,C;QADuD,OACzB,wCAAO,I;WACrC,WAAAM,SAAN,C;QAFuD,OAEzC,E;WACd,SAAK,SAAL,C;QAHuD,OAGrC,OAAL,SAAK,C;QAHqC,OAI1B,SAAL,SAAK,C;K;IAIjC,+B;MAYI,uB;QAAW,MAAM,gCAAYB,yBAAzB,C;WACjB,gBAAO,UAAAP,C;QAFyC,OAEjB,U;WACxB,gBAAO,WAAAP,C;QAHyC,OAGjB,W;QAHiB,OAIv,YAAvB,IAAW,OAAM,SAAN,CAAY,C;K;IAGnC,gC;MAYI,uB;QAAW,MAAM,gCAAYB,yBAAzB,C;WACjB,oD;QAF2C,+B;WAG3C,oD;QAH2C,+B;QAAA,OAIz,uBAAvB,IAAW,OAAM,SAAN,CAAY,C;K;uEASnC,yB;MAAA,iB;MAAA,oB;QAOgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAP7E,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAP7E,C;yEASA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;2EAWA,yB;MAAA,iB;MAAA,uB;QAKB4D,OAAA,MAA6C,OAA1B,CAA0

B,EAAZ,CAAY,C;O;KAIBzG,C;yEAoBA,yB;MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA8B,MAAZ,CAAY,C;O ;KAV/E,C;yEAYA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB; MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAV/E,C;2EAYA,yB;MAAA,iB;MAAA,oB; QAYkD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAZjF,C;2EAcA,yB;MAAA,iB;MAAA,oB;QAYkD,OAAA,MAA+ B,OAAZ,CAAY,C;O;KAZjF,C;2EAcA,yB;MAAA,iB;MAAA,oB;QAakD,OAAA,MAA+B,OAAZ,CAAY,C;O;K AbjF,C;2EAeA,yB;MAAA,iB;MAAA,uB;QAS4D,OAAA,MAA6C,OAA1B,CAA0B,EAAZ,CAAY,C;O;KATzG,C ;yEAWA,yB;MAAA,iB;MAAA,oB;QAQiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAR/E,C;uEUA,yB;MAAA,iB ;MAAA,oB;QAUgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAV7E,C;2EAYA,yB;MAAA,iB;MAAA,oB;QAcKd,O AAA,MAA+B,OAAZ,CAAY,C;O;KadjF,C;uEAgBA,yB;MAAA,mC;MAAA,0B;QAc6D,OAAmC,IAA7B,CAA6 B,EAAZ,IAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,oB;QAW+C,OAAA,MAA6B,KAAZ,CAAY,C;O; KAX5E,C;2EAaA,yB;MAAA,iB;MAAA,oB;QAokD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAPjF,C;yEASA,yB; MAAA,iB;MAAA,oB;QAOiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAP/E,C;yEASA,yB;MAAA,iB;MAAA,oB;Q AgBiD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAhBhF,C;yEAkBA,yB;MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA 8B,MAAZ,CAAY,C;O;KAV/E,C;2EAYA,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAA+B,OAAZ,CAAY,C;O; KAVjF,C;iFAYA,yB;MA3gBA,iB;MA2gBA,oB;QAUqD,OA3gBE,MAAW,OA2gBF,CA3gBE,C;O;KAigBIE,C;2 EAYA,yB;MAAA,uC;MAAA,oB;QAQkD,OAAoB,MAAZ,CAAY,C;O;KARtE,C;uEAWA,yB;MAAA,iB;MAAA, oB;QAUgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAV7E,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,M AA8B,MAAZ,CAAY,C;O;KAX/E,C;wEAeA,yB;MAAA,iB;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EA AO,CAAP,C;O;KAPrE,C;wEASA,yB;MAAA,iB;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP, C;O;KAPrE,C;sEAYA,yB;MAAA,iB;MAAA,+B;QAasD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;K AbpG,C;uEAeA,yB;MAAA,iB;MAAA,+B;QAOoD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;KAPIG, C;kGAmBoD,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAgC,KAAZ,SAAY,C;O;KAAxC,C;gFAaT,yB;MAAA ,iB;MAAA,4B;QAAQ,OAAA,MAAiC,MAAZ,SAAY,C;O;KAAzC,C;gFAE3C,yB;MAAA,6C;MAAA,kC;QAO8D ,OAA0C,SAArC,SAAqC,EAAZ,IAAY,C;O;KAPxG,C;iFASA,yB;MAAA,6C;MAAA,kC;QAK4D,OAA0C,SAArC ,SAAqC,EAAZ,IAAY,C;O;KALtG,C;oFAQA,yB;MAAA,iD;MAAA,4B;QAYmD,OAAW,WAAX,SAAW,C;O;K AZ9D,C;sFAcA,yB;MAAA,mD;MAAA,4B;QAYqD,OAAW,YAAX,SAAW,C;O;KAZhE,C;IAoBA,kB;MAUqC, OAAI,IAAI,CAAR,GAAY,CAAC,CAAD,OAAM,CAAIB,GAA0B,C;K;wEAE/D,yB;MAAA,iB;MAAA,uB;QAK oD,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAL/D,C;wEAOA,yB;MAAA,iB;MAAA,uB;QAKoD,OAAA ,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAL/D,C;mGaiBgD,yB;MAAA,mC;MAAA,4B;QAAQ,WAAL,SAAJ,C ;O;KAAR,C;IAShB,+B;MAC5B,gBAAO,CAAP,C;QADoC,OACxB,E;WACZ,gBAAO,CAAP,C;QAFoC,OAExB, C;;QAFwB,OAG5B,C;K;IAKZ,kB;MASuC,OAAI,eAAI,CAAR,GAAY,CAAD,aAAX,GAAmB,C;K;wEAE1D,gB; MAKuD,OAAI,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;wEAE1E,gB;MAKuD,OAAI,kBAAK,CAAL, MAAJ,GAAY,CAAZ,GAAmB,C;K;mGAYxB,yB;MAAA,mC;MAAA,4B;QAAQ,WAAL,SAAJ,C;O;KAAR,C;IA SJB,+B;MAC7B,2BAAO,CAAP,C;QADqC,OACzB,E;WACZ,2BAAO,CAAP,C;QAFqC,OAEzB,C;;QAFyB,OAG 7B,C;K;IC1kCZ,4B;MAI4C,qBAAQ,S;K;IAEpD,4B;MAI2C,qBAAQ,S;K;IAEnD,+B;MAGiD,qBAAQ,wCAAO,k BAaf,IAAoC,cAAQ,wCAAO,kB;K;IAEpG,iC;MAGgD,qBAAQ,uCAAM,kBAAd,IAAmC,cAAQ,uCAAM,kB;K;I AEjG,6B;MAG+C,QAAC,qBAAD,IAAiB,CAAC,kB;K;IAEjE,+B;MAG8C,QAAC,uBAAD,IAAiB,CAAC,kB;K;I AGhE,iC;MAOI,QAAQ,S;MACR,IAAI,CAAC,IAAM,UAAP,KAAaB,CAAe,KAAK,CAAP,GAAC,UAApC,K;M ACJ,IAAI,CAAC,IAAM,SAAP,KAAaB,CAAe,KAAK,CAAP,GAAC,SAApC,K;MACJ,IAAI,CAAC,IAAM,SAAP ,KAAaB,CAAe,KAAK,CAAP,GAAC,SAApC,K;MACJ,IAAI,CAAC,IAAM,QAAP,KAAaB,CAAe,KAAK,CAAP, GAAC,QAAPC,K;MACJ,IAAI,CAAC,IAAM,KAAP,KAAaB,CAAe,KAAK,EAA7B,K;MACJ,OAAO,C;K;kGAG X,yB;MAAA,iB;MAAA,4B;QAM2D,OAAA,MAAO,OAAM,SAAN,C;O;KANIE,C;IAQA,0C;MAOI,YATuD,MA AO,OAS9B,EAAf,aAAQ,CAAC,SAAD,IAAR,CAAe,CAT8B,CAS9D,I;K;IAEJ,sC;MAOI,OAAI,cAAQ,CAAZ,G AAe,CAAf,GAAsB,CAAe,IAAI,EAAJ,GAIB+B,MAAO,iB;K;IAoBIE,qC;MAQI,oBAAS,CAAC,SAAD,IAAT,C; K;IAEJ,yC;MAaI,oBAAI,QAAJ,GAAiB,cAAK,EAAL,GAAqB,Q;K;IAG1C,0C;MAaI,oBAAI,EAAJ,GAAoB,QA ApB,GAAiC,cAAK,Q;K;IAG1C,mC;MAMI,OAAK,ajDhEmD,uBiDgEnD,CAAL,GAA0B,ajDjE6B,sBiDiE7B,CA A1B,I;K;IAEJ,2C;MAMU,WAAW,SjDxEuC,c;MiDyEpD,e;QADJ,OACS,KA7E8C,MAAO,OjDGP,sBiDHO,CA6 ErD,I;;QADT,OA5EuD,MAAO,OA8EID,IA9EkD,C;;K;IAiFIE,4C;MAMU,UAAU,SjDpFuC,a;MiDqFnD,c;QADJ,



A,iC;K;0EACA,Y;MAAA,8B;K;2EACA,Y;MAAA,+B;K;4CAEA,Y;MAAkC,gB;K;8CANtC,Y;MACl,gB;K;8CA  
DJ,Y;MAEI,uB;K;8CAFJ,Y;MAGI,oB;K;8CAHJ,Y;MAII,qB;K;gDAJJ,kD;MAAA,8BACl,kCADJ,EAEI,uDAFJ,E  
AGI,8CAHJ,EAIi,iDAJJ,C;K;4CAA,Y;MAAA,c;MACl,qD;MACA,4D;MACA,yD;MACA,0D;MAJJ,a;K;0CAA  
A,iB;MAAA,4IACl,oCADJ,IAEI,kDAFJ,IAGl,4CAHJ,IAII,8CAJJ,I;K;ICAA,4B;MAAA,gC;MAEI,gBACe,wBA  
AoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAEf,mBACKB,wBAAoB,MAApB,EAAgE,QAAhE,EAA0E  
,mCAAIE,C;MAEIB,oBACmB,+B;MAEnB,oBACmB,wBAAoB,OAApB,EAAkE,SAAIE,EAA6E,oCAA7E,C;M  
AEnB,iBACgB,wBAAoB,MAApB,EAA8D,MAA9D,EAASe,iCAAtE,C;MAEhB,kBACiB,wBAAoB,MAApB,EA  
A+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,gBACe,wBAAoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAE  
f,kBACiB,wBAAoB,MAApB,EAA+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,mBACKB,wBAAoB,MAApB,EAAgE  
,QAAhE,EAA0E,mCAAIE,C;MAEIB,kBACiB,wBAAoB,KAAPB,EAAiE,OAAjE,EAA0E,kCAAIE,C;MAEjB,m  
BACKB,wBAAoB,MAApB,EAAgE,QAAhE,EAA0E,mCAAIE,C;MAEIB,sBACqB,wBAAoB,KAAPB,EAAkE,W  
AAIE,EAA+E,sCAA/E,C;MAErB,yBACwB,wBAAoB,KAAPB,EAAqE,cAArE,EAAqF,yCAArF,C;MAExB,sBAC  
qB,wBAAoB,WAApB,EAAwE,WAAxE,EAAqF,sCAArF,C;MAErB,sBACqB,wBAAoB,SAAPB,EAASe,WAAIE,  
EAAmF,sCAAnF,C;MAErB,uBACsB,wBAAoB,UAApB,EAAwE,YAAxE,EAASe,uCAATF,C;MAEtB,qBACoB,w  
BAAoB,UAApB,EAASe,UAAIE,EAAkF,qCAAlF,C;MAEpB,sBACqB,wBAAoB,KAAPB,EAAkE,WAAIE,EAA+  
E,sCAA/E,C;MAErB,uBACsB,wBAAoB,YAApB,EAA0E,YAAIE,EAAwF,uCAAxF,C;MAEtB,wBACuB,wBAA  
oB,YAApB,EAA2E,aAA3E,EAA0F,wCAA1F,C;K;IAMkB,qE;MAAA,qB;QAAE,OtE/DD,OsE+DU,EAAT,KAAi  
B,UAAjB,IAAkC,EAAy,OAAf,KAA0B,a;O;K;+CAJpG,iB;MAE2B,Q;MAAhB,U;MAAA,KAAgB,OAAhB,eAA  
gB,CAAI,KAAJ,CAAhB,U;QAAA,a;;QACH,aAAa,wBAAoB,QAApB,EAA+D,kBAA/D,EACoB,mDADpB,C;QA  
EG,eAAhB,UAAqC,M;QAHIC,SAIH,M;;MAJJ,a;K;IA7D+E,8C;MAAE,6B;K;IAGO,iD;MAAE,0B;K;IAME,kD;  
MAAE,8B;K;IAGZ,+C;MAAE,6B;K;IAGC,gD;MAAE,6B;K;IAGR,8C;MAAE,6B;K;IAGI,gD;MAAE,6B;K;IAG  
C,iD;MAAE,6B;K;IAGH,gD;MAAE,yB;K;IAGD,iD;MAAE,6B;K;IAGM,oD;MAAE,mC;K;IAGO,uD;MAAE,gC;  
K;IAGL,oD;MAAE,6B;K;IAGJ,oD;MAAE,6B;K;IAGE,qD;MAAE,8B;K;IAGR,mD;MAAE,4B;K;IAGJ,oD;MAA  
E,6B;K;IAGQ,qD;MAAE,8B;K;IAGC,sD;MAAE,+B;K;;IA5DvH,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;;ICCA,  
2B;MAEW,Q;MAAA,IAAI,KAAy,SAAQ,MAAR,CAAhB,C;QACH,kBAAW,MAAX,C;;QAEA,kBAAW,MAAX  
,C;;MAHJ,W;K;IAOJ,8B;MAC4E,QAAM,QAAS,OAAf,C;aACxE,C;UADwE,OACnE,WAAW,SAAS,CAAT,CA  
AX,C;aACL,C;UAFwE,OAEnE,+B;gBAFmE,OAGhE,iB;;K;IAGZ,oC;MAEU,IAAN,I;MAAA,QvEhB0C,OuEgB3  
B,CAAF,C;aACl,Q;UAA6B,OAAjB,8BAAiB,Y;UAA7B,K;aACA,Q;UAAy,OAAI,CAAY,C9DbhC,G8DamC,CA  
Af,MAAkC,CAATC,GAAyC,8BAAiB,SAA1D,GAAwE,8BAAiB,Y;UAArG,K;aACA,S;UAA8B,OAAjB,8BAAiB,  
a;UAA9B,K;aACA,U;UAA+B,OAAjB,8BAAiB,eAAgB,CAAY,OAA5B,C;UAA/B,K;gBAGQ,6B;YAASe,OAAj  
B,8BAAiB,kB;eACtC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,2B;YAAo  
C,OAAjB,8BAAiB,gB;eACpC,yB;YAAkC,OAAjB,8BAAiB,c;eAClC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,2B;  
YAAoC,OAAjB,8BAAiB,gB;eACpC,4B;YAAqC,OAAjB,8BAAiB,iB;eACrC,6B;;eACA,sB;YAAkC,OAAjB,8BA  
AiB,W;;YAE9B,kBAAkB,MAAA,gBAAE,CAAF,CAAKB,Y;YAE7C,oBAAGB,MAAhB,C;cAAiD,OAAjB,8BAAiB  
,S;iBACjD,oBAAGB,KAhB,C;cAAGD,OAAjB,8BAAiB,e;;cAE5C,cAA0B,W;cAC1B,kBAAW,OAAX,C;;;UAx  
BxB,K;;MAAA,W;K;IAGCJ,4B;MAMW,Q;MAJP,IAAI,WAAW,MAAF,C;QAA6B,OAAO,8BAAiB,Y;OAErD,eA  
AsB,MAAY,W;MAE3B,IAAI,gBAAJ,C;QACH,IAAI,QAAS,SAAT,QAAJ,C;UACl,aAAa,qBAAiB,MAAjB,C;UA  
Cb,oBAAsB,M;UACtB,a;;UAES,OAAT,QAAS,S;;;QAGb,4BAAiB,MAAjB,C;;MATJ,W;K;ICrCJ,0B;MAII,sBAA  
Y,C;K;qEAChB,4B;MAIkE,iBAAY,KAAZ,C;K;2EAEIE,qB;MAI8D,gB;K;ICIDb,2C;MAC7C,qBAAwC,Q;K;iDA  
ExC,Y;MACmB,Q;MAAA,yB;MAAA,iB;QAAe,MAAM,6BAAsB,0CAATB,C;OAApC,eAAe,I;MACf,qBAAC,I;M  
ACd,OAAO,QAAS,W;K;;;ICLa,kD;MADrC,e;MACsC,0B;MAAyB,gB;MAD/D,iB;MAAA,uB;K;IAAA,mC;MA  
AA,sC;O;MAEI,qEAGW,CAHX,EAGc,IAHD,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,iFAGiB,CAHj  
B,EAGoB,IAHpB,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,+EAGgB,CAHhB,EAGmB,IAHnB,C;MA  
KA,yEAGa,CAHb,EAGgB,IAHhB,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,6EAGe,CAHf,EAGkB,I  
AHIB,C;MAKA,6FAGuB,CAHvB,EAG0B,IAH1B,C;MAKA,yFAGqB,CAHrB,EAGwB,IAHxB,C;MAKA,4EAGc  
,EAHD,EAGkB,IAHIB,C;MAKA,0EAGa,EAHb,EAGiB,IAHjB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;M  
AKA,8EAGe,EAHf,EAGmB,IAHnB,C;MAKA,wFAGoB,EAHpB,EAGwB,IAHxB,C;MAKA,gEAGQ,EAHR,EA  
GY,IAHZ,C;MAKA,8DAGO,EAHP,EAGW,IAHX,C;MAKA,wEAGY,EAHZ,EAGgB,IAHhB,C;MAKA,oEAGU,

EAHV,EAGc,IAHd,C;MAKA,kFAGiB,EAHjB,EAGqB,IAHrB,C;MAKA,oFAGkB,EAHIB,EAGsB,IAHtB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,4FAGsB,EAHtB,EAG0B,IAH1B,C;MAKA,oFAGkB,EAHIB,EA GsB,IAHtB,C;MAKA,wEAGY,EAHZ,EAGgB,IAHhB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,gF AGgB,EAHhB,EAGoB,IAHpB,C;MAKA,0EAGa,EAHb,EAGiB,IAHjB,C;MAKA,oGAG0B,EAH1B,EAG8B,IAH 9B,C;MAKA,gGAGwB,EAHxB,EAG4B,IAH5B,C;MAUA,oC;K;;IA3JA,+C;MAAA,yB;MAAA,uC;K;;IAKA,qD; MAAA,yB;MAAA,6C;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,oD;MA AAA,yB;MAAA,4C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,mD;MAAA ,yB;MAAA,2C;K;;IAKA,2D;MAAA,yB;MAAA,mD;K;;IAKA,yD;MAAA,yB;MAAA,iD;K;;IAKA,kD;MAAA,yB ;MAAA,0C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,mD;MAAA,yB;M AAA,2C;K;;IAKA,wD;MAAA,yB;MAAA,gD;K;;IAKA,4C;MAAA,yB;MAAA,oC;K;;IAKA,2C;MAAA,yB;MAA A,mC;K;;IAKA,gD;MAAA,yB;MAAA,wC;K;;IAKA,8C;MAAA,yB;MAAA,sC;K;;IAKA,qD;MAAA,yB;MAAA, 6C;K;;IAKA,sD;MAAA,yB;MAAA,8C;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,0D;MAAA,yB;MAAA,kD; K;;IAKA,sD;MAAA,yB;MAAA,8C;K;;IAKA,gD;MAAA,yB;MAAA,wC;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;; IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,8D;MAAA,yB;MAAA,sD;K;;IAK A,4D;MAAA,yB;MAAA,oD;K;8CAKA,gB;MAG2D,OAAK,iBAAL,IAAK,CAAL,KAA2B,IAAK,c;K;IAE3F,kC; MAAA,sC;K;uDACL,oB;MAEQ,IADE,QACF,IAAG,CAAH,IADE,QACF,IAAM,EAAN,C;QADJ,OACgB,sBAAS ,QAAT,C;WACZ,IAFE,QAEF,IAAG,EAAH,IAFE,QAEF,IAAO,EAAP,C;QAFJ,OAEiB,sBAAS,WAAW,CAAX,I AAT,C;;QACL,MAAM,gCAAYB,eAAY,QAAZ,qBAzB,C;K;;;IAL1B,8C;MAAA,yB;MAAA,6C;QAAA,4B;OA AA,sC;K;;IA7JJ,+B;MAAA,+yC;K;;IAAA,oC;MAAA,a;AAAA,Y;UAAA,4C;aAAA,kB;UAAA,kD;aAAA,kB;UA AA,kD;aAAA,kB;UAAA,kD;aAAA,iB;UAAA,iD;aAAA,c;UAAA,8C;aAAA,kB;UAAA,kD;aAAA,gB;UAAA,gD; aAAA,wB;UAAA,wD;aAAA,sB;UAAA,sD;aAAA,e;UAAA,+C;aAAA,c;UAAA,8C;aAAA,iB;UAAA,iD;aAAA,g B;UAAA,gD;aAAA,qB;UAAA,qD;aAAA,S;UAAA,yC;aAAA,Q;UAAA,wC;aAAA,a;UAAA,6C;aAAA,W;UAAA ,2C;aAAA,kB;UAAA,kD;aAAA,mB;UAAA,mD;aAAA,iB;UAAA,iD;aAAA,uB;UAAA,uD;aAAA,mB;UAAA,m D;aAAA,a;UAAA,6C;aAAA,iB;UAAA,iD;aAAA,iB;UAAA,iD;aAAA,c;UAAA,8C;aAAA,2B;UAAA,2D;aAAA,y B;UAAA,yD;gBAAA,6D;;K;;ICKiD,2C;uBAA+B,O;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAv B,Y;K;ICD8B,gC;MAe9B,gBAAiC,YAAY,SAAhB,GAA2B,OAA3B,GAAwC,E;K;uFAGjE,Y;MAAQ,OAAO,aA AY,O;K;yCAE/B,iB;MACW,gBAAP,a;MpGoGG,Q;MAAA,IoGpGc,KpGoGV,IAAS,CAAT,IoGpGU,KpGoGI,IA AS,2BAA3B,C;QAAA,OAAc,qBoGpGxB,KpGoGwB,C;;QoGpGf,MAAM,8BAA0B,mCAAYB,WAAzB,MAA1 B,C;;MAAhC,W;K;kDAEJ,gC;MAAgF,OAAA,azGiMY,WyGjMK,UzGiML,EyGjMiB,QzGiMjB,C;K;6CyG/L5F,i B;MACI,qCAAU,KAAV,C;MACA,OAAO,I;K;6CAGX,iB;MACI,iBAAgB,SAAN,KAAM,C;MACHB,OAAO,I;K; 6CAGX,uC;MACI,OAAA,IAAK,qBAAY,wBAAS,MAArB,EAA6B,UAA7B,EAAyC,QAAzC,C;K;sCAET,Y;MA ayB,UAEK,M;MAL1B,eAAe,E;MACf,YAAY,aAAO,OAAP,GAAGB,CAAhB,I;MACZ,OAAO,SAAS,CAAhB,C; QACI,UAAU,0BAAO,YAAP,EAAO,oBAAP,Q;QACV,IAAQ,eAAJ,GAAL,CAAJ,IAAwB,SAAS,CAArC,C;UACI ,WAAW,0BAAO,cAAP,EAAO,sBAAP,U;UACX,IAAS,gBAAL,IAAK,CAAT,C;YACI,WAAW,+BAAW,iBAAX, wBAAkB,gBAAiB,C;;YAEX,WAAW,+BAAW,gBAAX,wBAAiB,iBAAjB,C;;;UAGf,gCAAY,GAAZ,C;;MAGR, gBAAS,Q;MACT,OAAO,I;K;6CAGX,iB;MAOI,iBAAgB,SAAN,KAAM,C;MACHB,OAAO,I;K;6CAGX,iB;MAQ LiBAAU,K;MACV,OAAO,I;K;6CAGX,iB;MAQI,iBAAgB,eAAN,KAAM,C;MACHB,OAAO,I;K;6CAGX,iB;MA C2C,2BAAO,KAAP,C;K;6CAE3C,iB;MAOI,gBAAA,IAAK,SAAL,IAAe,wBAAS,MAAxB,C;MACA,OAAO,I;K; uCAGX,Y;MAU6B,kB;K;qDAE7B,2B;K;8CAcA,kB;MAO0C,OAAA,IAAY,SAAY,SAAQ,MAAR,C;K;8CAEIE, 8B;MAQ2D,OAAA,IAAY,SAAY,SAAQ,MAAR,EAAgB,UAAhB,C;K;kDAEnF,kB;MAQ8C,OAAA,IAAY,SAA Y,aAAY,MAAZ,C;K;kDAEtE,8B;MASI,IAAI,MnGuGwC,YAAU,CmGvGID,IAAoB,aAAa,CAArC,C;QAAwC,O AAO,E;MAC/C,OAAO,IAAY,SAAY,aAAY,MAAZ,EAAoB,UAApB,C;K;4CAGnC,wB;MAWI,oCAAA,4BAAm B,KAAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azGmB+E,WyGnB9D,CzGmB8D,EyGnB3D,KzGmB2D,CyGnB/E, YAA6B,KAA7B,IAAQc,azGgB2B,WyGhBV,KzGgBU,C;MyGfzE,OAAO,I;K;6CAGX,wB;MAQI,oCAAA,4BAA mB,KAAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azGK+E,WyGL9D,CzGK8D,EyGL3D,KzGK2D,CyGL/E,uBAA6 B,kBAA7B,IAAQc,azGE2B,WyGFV,KzGEU,C;MyGDzE,OAAO,I;K;6CAGX,wB;MAUI,oCAAA,4BAAmB,KAA nB,EAA0B,WAA1B,C;MAEb,gBAAS,azGX+E,WyGW9D,CzGX8D,EyGW3D,KzGX2D,CyGW/E,GAAMC,eAA N,KAAM,CAAnC,GAAsD,azGdU,WyGcO,KzGdP,C;MyGezE,OAAO,I;K;6CAGX,wB;MAAI,oCAAA,4BAAmB,

KAAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azG9B+E,WyG8B9D,CzG9B8D,EyG8B3D,KzG9B2D,CyG8B/E,GA  
AmC,SAAN,KAAM,CAAnC,GAAgD,azGjCgB,WyGiCC,KzGjCD,C;MyGkCzE,OAAO,I;K;6CAGX,wB;MAWI,  
oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azG/C+E,WyG+C9D,CzG/C8D,EyG+C3D,KzG/C2  
D,CyG+C/E,GAAMC,SAAN,KAAM,CAAnC,GAAgD,azGIDgB,WyGkDC,KzGIDD,C;MyGmDzE,OAAO,I;K;6C  
AGX,wB;MACuD,2BAAO,KAAP,EAAC,KAAD,C;K;6CAEvD,wB;MAUI,oCAAA,4BAAmB,KAAAnB,EAA0B,W  
AA1B,C;MAEb,eAAe,wBAAS,M;MACxB,gBAAC,IAAK,SzGnEqE,WyGmEpD,CzGnEoD,EyGmEjD,KzGnEiD,  
CyGmE1E,GAAkC,QAAIC,GAA6C,IAAK,SzGtES,WyGsEQ,KzGtER,C;MyGuEzE,OAAO,I;K;gDAGX,qB;MAC  
I,IAAI,YAAY,CAAhB,C;QACI,MAAM,gCAAYB,0BAAuB,SAAvB,MAAZB,C;OAGV,IAAI,aAAa,WAAjB,C;Q  
ACI,gBAAS,azG1F2E,WyG0F1D,CzG1F0D,EyG0FvD,SzG1FuD,C;;QyG4FpF,aAAU,WAAV,MAAuB,SAAvB,  
M;UACI,qCAAU,CAAV,C;;K;gDAKZ,sB;MAQI,oCAAA,4BAAmB,UAAAnB,EAA+B,WAA/B,C;MAEb,OAAO,a  
zG/GkE,WyG+GjD,UzG/GiD,C;K;gDyGkH7E,gC;MAQI,oCAAA,4BAAmB,UAAAnB,EAA+B,QAA/B,EAAyC,W  
AAzC,C;MAEb,OAAO,azGzHiF,WyGyHhE,UzGzHgE,EyGyHpD,QzGzHoD,C;K;yCyG4H5F,Y;K;uCAcA,Y;MA  
AkC,oB;K;oCAEIC,Y;MAOI,gBAAS,E;MACT,OAAO,I;K;0CAGX,wB;MAQI,oCAAA,2BAAkB,KAAIB,EAAyB,  
WAAzB,C;MAEb,gBAAS,azGjK+E,WyGiK9D,CzGjK8D,EyGiK3D,KzGjK2D,CyGiK/E,uBAA6B,kBAA7B,IAA  
qC,azGpK2B,WyGoKV,QAAQ,CAAR,IzGpKU,C;K;+CyGuK7E,uC;MAYI,yBAAkB,UAAIB,EAA8B,QAA9B,E  
AAwC,WAAxC,C;MAEA,gBAAC,IAAK,SzGILqE,WyGkLpD,CzGILoD,EyGkLjD,UzGILiD,CyGkL1E,GAAuC,  
KAAvC,GAA+C,IAAK,SzGrLO,WyGqLU,QzGrLV,C;MyGsLzE,OAAO,I;K;kDAGX,wC;MACI,IAAI,aAAa,CA  
Ab,IAAkB,aAAa,MAAnC,C;QACI,MAAM,8BAA0B,iBAAC,UAAAd,kBAAMC,MAA7D,C;OAEV,IAAI,aAAa,QA  
AjB,C;QACI,MAAM,gCAAYB,gBAAa,UAAb,qBAAqC,QAArC,MAAZB,C;Q;+CAId,iB;MAYI,oCAAA,2BAAkB  
,KAAIB,EAAyB,WAAzB,C;MAEb,gBAAS,azG7M+E,WyG6M9D,CzG7M8D,EyG6M3D,KzG7M2D,CyG6M/E,  
GAA6B,azGhNmC,WyGgNIB,QAAQ,CAAR,IzGhNkB,C;MyGiNzE,OAAO,I;K;kDAGX,gC;MAWI,yBAAkB,U  
AAIB,EAA8B,QAA9B,EAAwC,WAAxC,C;MAEA,gBAAS,azG9N+E,WyG8N9D,CzG9N8D,EyG8N3D,UzG9N2  
D,CyG8N/E,GAAkC,azGjO8B,WyGiOb,QzGjOa,C;MyGkOzE,OAAO,I;K;kDAGX,gE;MAC+C,iC;QAAA,oBAAy  
B,C;MAAG,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,IAAK,O;MAKIF,IACf,I;MALhB,oCAAA,4BAAm  
B,UAAAnB,EAA+B,QAA/B,EAAyC,WAAzC,C;MACb,oCAAA,4BAAmB,iBAAnB,EAAc,oBAAoB,QAApB,GA  
A+B,UAA/B,IAAtC,EAAiF,WAAy,OAA7F,C;MAEb,eAAe,iB;MACf,iBAAC,UAAAd,UAA+B,QAA/B,U;QACI,Y  
AAY,eAAZ,EAAy,uBAAZ,UAA0B,yBAAO,KAAP,C;;K;kDAIIC,uC;MAcI,iBAAGB,iBAAN,KAAM,EAAe,UA  
Af,EAA2B,QAA3B,C;MACHB,OAAO,I;K;kDAGX,uC;MAYI,gBAAGB,KAAM,W;MACtB,oCAAA,4BAAmB,U  
AAAnB,EAA+B,QAA/B,EAAyC,SAAU,OAAAnD,C;MAEb,iBAAU,SzG3R8E,WyG2R1D,UzG3R0D,EyG2R9C,Qz  
G3R8C,C;MyG4RxF,OAAO,I;K;kDAGX,8C;MAGBI,oCAAA,4BAAmB,KAAAnB,EAA0B,IAAK,OAA/B,C;MAEb,  
gBAAS,azGjT+E,WyGiT9D,CzGjT8D,EyGiT3D,KzGjT2D,CyGiT/E,GAAMC,iBAAN,KAAM,EAAe,UAAf,EAA  
2B,QAA3B,CAAnC,GAA0E,azGpTV,WyGoT2B,KzGpT3B,C;MyGqTzE,OAAO,I;K;kDAGX,8C;MAGBI,oCAAA  
,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MAEb,gBAAGB,KAAM,W;MACtB,oCAAA,4BAAmB,UAAAnB,EAA+B,  
QAA/B,EAAyC,SAAU,OAAAnD,C;MAEb,gBAAS,azG1U+E,WyG0U9D,CzG1U8D,EyG0U3D,KzG1U2D,CyG0U  
/E,GAA6B,SzG1UkD,WyG0U9B,UzG1U8B,EyG0UIB,QzG1UkB,CyG0U/E,GAAyE,azG7UT,WyG6U0B,KzG7U  
1B,C;MyG8UzE,OAAO,I;K;;IALiBX,6C;MAAA,uD;MAKOC,2B;MALpC,Y;K;IAQA,8C;MAAA,uD;MAC4C,0B  
AAK,OAAQ,WAAb,C;MAD5C,Y;K;IAGA,qC;MAAA,uD;MACuB,0BAAK,EAAL,C;MADvB,Y;K;2EA4hBJ,qB  
;MAOG,E,OAAA,SAAK,Q;K;uEAER,E,mC;MAQ+E,SAAK,aAAI,KAAJ,EAAW,KAAx,C;K;+EAEPf,kD;MAAI,O  
AAA,SAAK,kBAAS,UAAAT,EAAqB,QAArB,EAA+B,KAA/B,C;K;+EAET,4B;MAY6E,OAAA,SAAK,kBAAS,K  
AAT,C;K;qFAEIF,2C;MAWoG,OAAA,SAAK,qBAAY,UAAZ,EAAwB,QAAxB,C;K;uFAEZg,2E;MAe2E,iC;QA  
AA,oBAAyB,C;MAAG,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MAC7I,SAAK,qBAAY,WA  
AZ,EAAyB,iBAAZB,EAA4C,UAA5C,EAAwD,QAAxD,C;K;qFAET,kD;MAeI,OAAA,SAAK,qBAAY,KAAZ,EAAMB,UAAAnB,EAA+B,Q  
AA/B,C;K;qFAET,yD;MAiBI,OAAA,SAAK,qBAAY,KAAZ,EAAMB,KAAAnB,EAA0B,UAA1B,EAAc,QAAtC,  
C;K;uFAET,yD;MAiBI,OAAA,SAAK,qBAAY,KAAZ,EAAMB,KAAAnB,EAA0B,UAA1B,EAAc,QAAtC,C;K;qF  
1GhsBT,qB;MAMoD,OA6BW,8BAAY,cAfrB,YAAY,CAAZ,C;K;yFAZtD,qB;MAYsD,OAeS,8BAAY,cAfrB,YA  
AY,CAAZ,C;K;iFAEtD,qB;MAaoD,OAaW,8BAAY,c;K;qFAE3E,yB;MAAA,uD;MAAA,4B;QAMoD,+B;O;KA  
NpD,C;IAQA,kC;MAYI,gBAiB2D,8BAAY,c;MAhBvE,OAaW,SAAU,OAaV,GAAMB,CAAvB,GAA0B,SAA1B



,GAAoC,qBAAU,CAAV,C;K;iFAG/C,qB;MAaoD,OAAW,8BAAy,c;K;IAE3E,kC;MAU+C,mC;K;IAE/C,oC;MA  
GoD,QAAQ,cAAA,sCAAK,mBAAL,EAAYb,sCAAK,mBAA9B,CAAR,6B;K;IAEpD,mC;MAGmD,QAAQ,cAA  
A,sCAAK,kBAAL,EAawB,sCAAK,kBAA7B,CAAR,6B;K;IAO/C,iC;MAAQ,OAAA,oCAAA,iBAAQ,2BAAR,C;  
K;IAEzB,8B;MAOI,IAAI,YAAO,GAAX,C;QACI,OAAO,I;OAEX,OAAO,gCAA8C,mD;K;IAGzD,6B;MAUI,IAA  
I,CAAQ,kBAAK,GAAL,CAAR,iCAAoB,CAAQ,kBAAK,EAAL,CAAR,6BAAxB,C;QACI,OAAO,I;OAEX,IAAI,  
YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,uB;K;IAGX,oC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,iCA  
AoB,CAAQ,kBAAK,EAAL,CAAR,6BAApB,IAAwC,CAAQ,kBAAK,EAAL,CAAR,6BAA5C,C;QACI,OAAO,I;  
OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAGX,OAAO,0BAAiB,uB;K;IAG5B,4B;MASI,IAAI,CAAQ,kBA  
AK,EAAL,CAAR,6BAAJ,C;QACI,OAAO,I;OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,sB;K;I  
AGX,gC;MAUI,IAAI,CAAQ,kBAAK,EAAL,CAAR,6BAAJ,C;QACI,OAAO,I;OAEX,IAAI,YAAO,GAAX,C;QA  
CI,OAAO,K;OAEX,OAAO,0B;K;IAGX,gC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,6BAAJ,C;QACI,OAAO,I  
;OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,0B;K;IAGX,gC;MASI,IAAI,YAAO,GAAX,C;QA  
CI,OAAO,K;OAEX,OAAO,gCAAoD,yD;K;IAG/D,iC;MAUI,OAAO,aAAQ,EAAR,IAAoB,CAAQ,mBAAU,GAA  
V,CAAR,6B;K;IAG/B,iC;MAMiD,kC;K;iF2GtPjD,yB;MAAA,+C;MAAA,4B;QAMuD,OAAK,UAAAL,SAAK,C;O  
;KAN5D,C;IAQA,gC;MAMiD,4B;MAAA,S;QAAGB,cAAA,S1G4LC,c0G5LD,EAAoB,MAApB,C;OAAhB,W;K;I  
AEjD,6B;MAI0C,Q;MAAA,yDAaKB,kBAaKB,SAaIB,C;K;IAE5D,oC;MAKoD,Q;MAAA,yCAAA,KAAb,oBAA  
uB,kBAaKB,SAaIB,C;K;IAG3E,8B;MAI4C,Q;MAAA,0DAaMB,kBAaKB,SAaIB,C;K;IAE/D,qC;MAKsD,Q;M  
AAA,0CAAc,KAAd,oBAAwB,kBAaKB,SAaIB,C;K;IAE9E,0B;MAIwC,Q;MAAA,wDAaIB,kBAaKB,SAaIB,C;  
K;IAEzD,mC;MAKkD,Q;MAAA,wCAAY,KAAZ,oBAAsB,kBAaKB,SAaIB,C;K;IAExE,2B;MAI0C,Q;MAAA,y  
DAaKB,kBAaKB,SAaIB,C;K;IAE5D,oC;MAKoD,Q;MAAA,yCAAA,KAAb,oBAAuB,kBAaKB,SAaIB,C;K;IAE  
3E,6B;MAIyF,kBAA1C,CAAO,S;MACID,IAAO,QpHeD,WoHfC,CAAH,IAAc,CAAM,kBAApB,KpHeE,WoHf6  
B,KAAM,GAAN,IAaKB,kBAaJd,CAAJ,C;QACI,4B;MAFsC,OpHiBnC,W;K;6EoHZX,yB;MAAA,6C;MAAA,4  
B;QAKmD,0B;O;KALnD,C;IAOA,mC;MAIgG,kBAA1C,CAAO,S;MAAR,OACjD,EAaK,QpH2BgB,WoH3BhB,  
CAAH,IAAc,CAAM,kBAApB,KpH2BmB,WoH3BY,KAAM,GAAN,IAaKB,kBAaJd,CAAF,CpH2BO,GAAqB,  
WAArB,GAA+B,I;K;yFoHxB1C,yB;MAAA,yD;MAAA,4B;QAK0D,gC;O;KAL1D,C;iFAOA,yB;MAAA,6C;MA  
AA,mC;QAO6D,OAAa,SAAR,SAAQ,EAAS,KAAT,C;O;KAP1E,C;iFASA,yB;MAAA,6C;MAAA,mC;QAO8D,O  
AAa,SAAR,SAAQ,EAAS,KAAT,C;O;KAP3E,C;IASA,sC;MAMqD,OAAA,SAAY,UAAS,WAAW,KAAX,CAAT  
,C;K;IAEjE,4B;MAAsC,QAAM,S1G4EsB,c0G5E5B,C;aAClC,K;aAAA,M;aAAA,M;UADkC,OACT,I;gBADS,O  
AE1B,K;;K;IAGZ,2B;MAKI,IAAI,EAAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAYB,WAAQ,KAAR  
,kCAAzB,C;OAEV,OAAO,K;K;IAGX,8B;MAA2D,Q;MACvD,YAAQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,c  
AAO,E;WACrC,YAAQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,YAAQ,E  
AAR,IAAe,QAAQ,GAAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,WAAO,GAAP,C;QAAmB,S;WACn  
B,YAAQ,KAAR,IAAoB,QAAQ,KAA5B,C;QAAwC,cAAO,KAAP,GAaKB,EAaIB,I;WACxC,YAAQ,KAAR,IA  
AoB,QAAQ,KAA5B,C;QAAwC,cAAO,KAAP,GAaKB,EAaIB,I;QAC3B,sBAAL,IAAK,C;Mph9CN,a;MoHuCg  
D,OAQ/C,WAAJ,GAAiB,EAaJB,GAAyB,E;K;ICIjG,2C;MAHpC,e;MAGqC,kB;MAHrC,iB;MAAA,uB;K;IAAA,  
kC;MAAA,qC;O;MAII,qEACY,GADZ,C;MAEA,iEAIU,GAJV,C;K;;IAFA,+C;MAAA,wB;MAAA,uC;K;;IAEA,6  
C;MAAA,wB;MAAA,qC;K;;IANJ,8B;MAAA,mF;K;;IAAA,mC;MAAA,a;aAAA,a;UAAA,4C;aAAA,W;UAAA,0  
C;gBAAA,4D;;K;;IAawG,4B;MAAE,OAAA,EAAG,M;K;IAA7G,qC;MAAqE,iCAAA,EAAb,EAa0B,OAA1B,0B  
AAmC,cAAnC,C;K;IAQlC,2B;MAAC,kB;K;;sCALpC,Y;MAKoC,iB;K;wCALpC,iB;MAAA,sBAKoC,qCALpC,C  
;K;oCAAA,Y;MAAA,OAKoC,iDALpC,M;K;oCAAA,Y;MAAA,c;MAKoC,sD;MALpC,a;K;kCAAA,iB;MAAA,2I  
AKoC,sCALpC,G;K;IAqB0B,iC;MA8PtB,6B;MArPA,eACoC,O;MACpC,eACsD,QAAR,OAAQ,C;MACtD,uBAA  
oC,WAAO,OAAP,EAawB,QAAR,OAAQ,EAaQ,IAAR,CAAxB,C;MACpC,6BAA2C,I;MAI3C,oCAAKD,I;K;0C  
AHID,Y;MACl,Q;MAAA,U;MAAA,gD;QAAA,a;;QAA8D,gBAAvC,WAAO,YAAP,EAawB,QAAR,YAAQ,EA  
Q,IAAR,CAAxB,C;QAA8C,6BrHmCnE,S;QqHnCF,SrHoCG,S;;MqHpCH,a;K;iDAGJ,Y;MACl,Q;MAAA,U;MA  
AA,uD;QAAA,a;;QrHVG,gB;QqHWC,IAAY,aAAR,YAAQ,EAaw,EAAX,CAAR,IAAmC,WAAW,YAAQ,EAAS  
,EAAT,CAAvC,C;UAAA,eACl,oB;;UAEA,OAAO,WAAO,MAA2B,UAAf,YAAR,YAAQ,qBAAU,EAav,EAae,  
qBAAQ,EAAR,EAa3B,MAAP,EAa2D,QAAR,YAAQ,EAaQ,IAAR,CAA3D,C;QACb,4B;QAAO,oCrH0BP,S;Q  
qH/BF,SrHgCG,S;;MqHhCH,a;K;sCAQJ,iB;MAEKb,MAAd,oBAAc,C;MACd,YAAy,oBAAc,MAAK,KAAM,W

AAX,C;MAC1B,OAAO,iBAAiB,KAAM,MAAN,KAAe,CAAhC,IAAqC,oBAAc,UAAAd,KAA2B,KAAM,O;K;8C  
AGjF,iB;MAEkB,MAAd,oBAAc,C;MACd,OAAO,oBAAc,MAAK,KAAM,WAAAX,C;K;wCAGzB,wB;MAGI,IAA  
I,QAAQ,CAAR,IAAa,QAAQ,KAAM,OAA/B,C;QACI,MAAM,8BAA0B,0BAAuB,KAAvB,wBAA8C,KAAM,OA  
A9E,C;OAEV,cAAc,0B;MACd,oBAAoB,K;MACpB,OAAO,OAAQ,MAAK,KAAM,WAAAX,C;K;mCAGnB,6B;M  
AS4C,0B;QAAA,aAAkB,C;MAC1D,IAAI,aAAa,CAAb,IAAkB,aAAa,KAAM,OAAzC,C;QACI,MAAM,8BAA0B  
,gCAA6B,UAA7B,wBAAyD,KAAM,OAAzF,C;OAEV,OAAqB,SAAd,oBAAc,EAAS,KAAM,WAAf,EAA2B,UA  
A3B,EAAuC,oBAAvC,C;K;IAeG,6E;MAAA,mB;QAAE,+BAAK,aAAL,EAAY,kBAAZ,C;O;K;IAA2B,uC;MAA  
W,OAAA,KAAM,O;K;sCAZIE,6B;MAQ+C,0B;QAAA,aAAkB,C;MAC7D,IAAI,aAAa,CAAb,IAAkB,aAAa,KA  
AM,OAAzC,C;QACI,MAAM,8BAA0B,gCAA6B,UAA7B,wBAAyD,KAAM,OAAzF,C;OAEV,OAAO,mBAAiB,  
6CAAjB,EAA8C,sBAA9C,C;K;0CAGX,iB;MAMI,OAA2B,SAA3B,iCAA2B,EAAS,KAAM,WAAf,EAA2B,CAA  
3B,EAA8B,oBAA9B,C;K;sCAE/B,wB;MAGI,IAAI,QAAQ,CAAR,IAAa,QAAQ,KAAM,OAA/B,C;QACI,MAAM  
,8BAA0B,0BAAuB,KAAvB,wBAA8C,KAAM,OAA9E,C;OAEV,OAA2B,SAAPB,0BAAoB,EAAS,KAAM,WAA  
f,EAA2B,KAA3B,EAakC,oBAAiC,C;K;IA4BL,mD;MAAA,qB;QAAE,2BAAoB,EAAPB,EAawB,mBAAxB,C;O  
;K;sCAxB5B,8B;MAqBI,IAAI,CAAA,YAAZ,WAAy,EAAS,EAAT,CAAb,IAA+B,CAAA,YAAZ,WAAy,EAAS,E  
AAT,CAAhD,C;QACI,OAAO,KAAM,W3G2E4E,S2G3EnD,oB3G2EmD,E2G3EpC,W3G2EoC,C;O2GzE7F,OAA  
O,qBAAQ,KAAR,EAAe,iCAAf,C;K;sCAGX,4B;MAMI,YAAy,kBAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAMB  
,OAAO,KAAM,W;MAEhC,gBAAgB,C;MACHB,aAAa,KAAM,O;MACnB,SAAS,mBAAC,MAAd,C;;QAEL,iBA  
AiB,oB;QACjB,EAAG,gBAAO,KAAP,EAAC,SAAd,EAAYB,UAAW,MAAM,MAA1C,C;QACH,EAAG,gBAAO,  
UAAU,UAAV,CAAP,C;QACH,YAAy,UAAW,MAAM,aAAjB,GAAgC,CAAhC,I;QACZ,QAAQ,UAAW,O;;MA  
Cd,oBAAy,MAAZ,IAAsB,aAAtB,C;MAET,IAAI,YAAy,MAAhB,C;QACI,EAAG,gBAAO,KAAP,EAAC,SAAd,  
EAAYB,MAAZB,C;OAGP,OAAO,EAAG,W;K;2CAGd,8B;MA0BgB,Q;MALZ,IAAI,CAAA,YAAZ,WAAy,EAAS  
,EAAT,CAAb,IAA+B,CAAA,YAAZ,WAAy,EAAS,EAAT,CAAhD,C;QACI,uBAA+B,QAAR,YAAQ,EAAQ,GA  
AR,C;QAC/B,OAAO,KAAM,W3GoB4E,S2GpBnD,WAAO,YAAP,EAAGB,gBAAhB,C3GoBmD,E2GpBhB,W3G  
oBgB,C;O2GjBjF,yBAAK,KAAL,C;MAAA,iB;QAae,OAAO,KAAM,W;OAAxC,YAAy,I;MCoLO,gBAAhB,sB;  
MDjLC,yBrG2LgF,0BqG3LzD,CrG2LyD,EqG3LhD,WAAM,MrG2L0C,CAAkC,WqG3LIH,C;MACA,yBAAO,uC  
AAP,C;MACA,yBrGyLgF,0BqGzLnD,WAAM,KAAZ,GAAmB,CAAnB,IrGyLyD,EqGzL7B,YrGyL6B,CAAkC,  
WqGzLIH,C;MAHJ,OrHIJG,SsHoUqC,W;K;oCD3K5C,wB;MAO6C,qB;QAAA,QAAa,C;MAMxC,Q;MALd,wBA  
AwB,KAAxB,C;MrHrIG,SqHsIW,qBAAQ,KAAR,C;MAAd,cAAuC,UAAAS,CAAb,GAAgB,EAAhB,GAA2B,OA  
AH,EAAG,EAak,QAAQ,CAAR,IAAL,C;MAC9D,ahI3JgD,gB;MgI4JhD,gBAAgB,C;MAEF,yB;MAAd,OAAc,c  
AAd,C;QAAC,uB;QACV,MAAO,WAAU,mBAAN,KAAM,EAAY,SAAZ,EAAuB,KAAM,MAAM,MAAnC,CAA  
0C,WAApD,C;QACP,YAAy,KAAM,MAAM,aAAZ,GAA2B,CAA3B,I;;MAEhB,MAAO,WAAU,mBAAN,KAA  
M,EAAY,SAAZ,EAAuB,KAAM,OAA7B,CAAqC,WAA/C,C;MACP,OAAO,M;K;IAGBS,yI;MAAA,wC;MAAA,6  
B;MAAA,yB;MAAA,0C;MAAA,oC;MAAA,0C;MAAA,yB;MAAA,6B;MAAA,8B;MAAA,8B;MAAA,kC;K;;;gE  
AAA,Y;;;iCACA,mCAAK,wBAAL,C;cACZ,IAAI,4BAAiB,6BAAS,CAA9B,C;gBACI,gB;gCAAA,iCAAM,wB  
AAM,WAAZ,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBADJ,gB;,,,,;cAEI,M;;qCAGY,C;sCACC,C;cAEjB,gB;,,,sC  
ACqB,+B;cACjB,gB;8BAAA,iCrGuI4E,mBqGvItE,wBrGuIsE,EqGvItD,oBrGuIsD,EqGvI3C,qBAAW,MAAM,Mr  
GuI0B,CAAkC,WqGvI9G,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cACA,uBAAy,qBAAW,MAAM,aAAjB,GAAgC,  
CAAhC,I;cACZ,mBAAQ,qBAAW,O;cAJvB,KAKS,qDALT,EAKS,qBALT,OAKyB,2BAAQ,CAAR,IALzB,KAK  
sC,gBALtC,S;gBAAA,gB;,,,cAAA,gB;,,,cAOA,gB;8BAAA,iCrGkIgF,mBqGIIIE,wBrGkI0E,EqGIIID,oBrGkI0D,E  
qGII/C,wBAAM,OrGkIyC,CAAkC,WqGIIII,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAhBA,OAGBA,a;,,,,,;K;I  
AjBY,sF;MAAA,yD;uBAAA,6H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;8CAbpB,wB;MAUuD,qB;QAAA,QAAa,C  
;MACHB,wBAawB,KAAxB,C;MAEA,OAAO,SAAS,gDAAT,C;K;+BAxBX,Y;MAMyC,OAAA,oBAAC,W;K;IAE  
vD,2B;MAAA,+B;MAmBI,uBAA4B,WAAO,uBAAP,EAaiC,GAAjC,C;MAC5B,2BAAgC,WAAO,SAAP,EAAo  
B,GAApB,C;MAGhC,iCAAsC,WAAO,KAAP,EAaiB,GAAjB,C;K;oDatBtC,mB;MAIwD,oBAAM,oBAAO,OAA  
P,CAAN,C;K;+CAExD,mB;MAIoD,OAAA,O3GnEyC,S2GmEnB,oB3GnEmB,E2GmEJ,M3GnEI,C;K;0D2GqE7F  
,mB;MAI+D,OAAA,O3GzE8B,S2GyER,wB3GzEQ,E2GyEW,M3GzEX,C;K;gE2G8E7F,mB;MAAGe,OAAA,O3  
G9E6B,S2G8EP,8B3G9EO,E2G8EkB,M3G9EIB,C;K;;;I2GwDjG,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;;IA5PA,  
4C;MAAA,+C;MACKe,kBAAK,OAAL,EAAC,MAAM,MAAN,CAAd,C;MADIE,Y;K;IAGA,sC;MAAA,+C;MAC

6C,kBAAK,OAAL,EAAC,UAAAd,C;MAD7C,Y;K;IA4RO,kG;MAAA,kC;MAAA,8C;MAAA,kC;MAAA,kC;MAC  
H,uBAA+B,a;MAI/B,sF;MAOA,sBAA0C,I;K;+FAX1C,Y;MAAA,2B;K;+FAEI,Y;MAAQ,qBAAA,kBN/R8C,CM  
+RxC,CN/RwC,CM+R9C,C;K;gGAEZ,Y;MAAA,4B;K;IAY2B,oG;MAAA,kC;MAAS,uB;K;mJACG,Y;MAAQ,O  
AAA,kBAAM,O;K;wGACrC,iB;MAAuC,Q;MAAA,eAAA,kBN/SG,CM+SG,KN/SH,CM+SH,mBAAgB,E;K;;qG  
AJnE,Y;MACI,IAAI,2BAAJ,C;QACI,yH;OAKJ,OAAO,kC;K;4CAGf,Y;MACI,OAA Y,SAAZ,wBAA Y,EAAS,kB  
AAT,EAAoB,kBAAM,UAAV,GAAqB,kBAAM,MAAN,GAAC,CAAd,IAArB,GAA0C,kBAAM,aAAN,GAAqB,C  
AArB,IAA1D,EAaKf,wBAAIF,C;K;IArB4B,oE;MAAA,kC;MAA+B,6B;K;mHACHd,Y;MAAQ,OAAA,kBAAM,  
O;K;IACqC,4E;MAAA,qB;QAAE,yBAAK,EAAL,C;O;K;qEAA5E,Y;MAAiD,OAAqB,OAAb,aAAR,oBAAQ,CA  
Aa,EAAl,iEAAJ,CAAiB,W;K;wEACvF,iB;MAA4C,Q;MAAA,eAAA,kBNpSU,CMoSJ,KNpSI,CMoSV,YAAoB,o  
BAApB,O;K;;;IAdxD,uD;MACI,sBAAiB,I;MACjB,YAA Y,eAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB,OAA  
O,I;MAC1B,YAA Y,aAAA,KAAM,MAAN,EAAa,sBAA Y,CAAZ,IAAb,C;MAEZ,mE;K;IA8BJ,iD;MAM+B,UAK  
O,M;MATIC,YAA Y,C;MACZ,aAAa,mBAAC,WAA Y,OAA1B,C;MAEb,OAAO,QAAQ,WAA Y,OAA3B,C;QACI,  
WAAW,wBAA Y,YAAZ,EAAY,oBAAZ,Q;QACX,IAAI,SAAQ,EAZ,C;UACI,IAAI,UAAS,WAA Y,OAAzB,C;Y  
ACI,MAAM,gCAAYb,mCAAzB,C;UAEV,MAAO,gBAAO,wBAA Y,cAAZ,EAAY,sBAAZ,UAAP,C;eACJ,IAAI,  
SAAQ,EAZ,C;UACH,IAAI,UAAS,WAA Y,OAAzB,C;YACI,MAAM,gCAAYb,kCAAzB,C;UAEV,IAAI,uBAA  
Y,KAAZ,MAASB,GAA1B,C;YACI,MAAM,gCAAYb,4DAAzB,C;UAEV,IAAI,EAAuB,kBAAK,EAAL,CAA vB,0  
CAAY,KAAZ,EAJ,C;YACI,MAAM,gCAAYb,mCAAzB,C;UAEV,eAA2B,eAAZ,WAA Y,EAAe,KAaf,EAASB,  
KAAM,YAA Y,KAAx C,C;UAC3B,iBAAwD,MAAvC,W3GhK6E,W2GgK7C,K3GhK6C,E2GgKtC,Q3GhKsC,C2  
GgK5B,C;UAExD,IAAI,cAAc,KAAM,YAA Y,KAApC,C;YACI,MAAM,8BAA0B,sBAAmB,UAA nB,oBAA1B,C;  
UAEV,MAAO,gBAAO,KAAM,YAAN,aAAkB,UAA1B,CAAP,C;UACP,QAAQ,Q;;UAER,MAAO,gBAAO,IAAP,  
C;;MAGf,OAAO,MAAO,W;K;IAGIB,2D;MAEI,YAA Y,aAAa,CAAb,I;MACZ,iBAAiB,qBAAK,UAAL,IAAmB,  
E;MAGpC,OAAO,QAAQ,gBAAR,IAAkB,CAAe,kBAAK,EAAL,CAaf,wCAAK,KAAL,EAzB,C;QACI,oBAAo  
B,CAAC,aAAa,EAAb,IAAD,KAAqB,qBAAK,KAAL,IAAc,EAAnC,K;QACpB,IAAqB,CAAjB,qCAAYB,UAA7B  
,C;UACI,aAAa,a;UACb,qB;;UAEA,K;;MAGR,OAAO,K;K;I3GxZX,yB;MAQiB,Q;MADb,aAAa,E;MACb,wBAA  
a,KAAb,gB;QAAa,WAAb,UAAa,KAAb,O;QACI,8BAAU,IAAV,C;;MAEJ,OAAO,M;K;IAGX,yC;MAa+B,Q;MA  
H3B,IAAI,SAAS,CAAT,IAAc,SAAS,CAA vB,IAA4B,CAAA,KAAM,OAAN,GAAa,MAAb,QAA sB,MAATD,C;Q  
ACI,MAAM,8BAA0B,WAAS,KAAM,OAaf,kBAA+B,MAA/B,kBAAgD,MAA1E,C;MACV,aAAa,E;MACc,gBA  
AS,MAAT,I;MAA3B,iBAAC,MAAd,wB;QACI,8BAAU,MAAM,KAAN,CAAV,C;;MAEJ,OAAO,M;K;IAGX,mC;  
MAOiB,Q;MADb,aAAa,E;MACb,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QACI,8BAAU,IAAV,C;;MA  
EJ,OAAO,M;K;IAGX,2D;MAY2C,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MACjF,oCAAa,4  
BAAmB,UAA nB,EAA+B,QAA/B,EAAYC,SAAK,OAA9C,C;MACb,aAAa,E;MACb,iBAAC,UAA d,UAA+B,QAA  
/B,U;QACI,8BAAU,UAAK,KAAL,CAAV,C;;MAEJ,OAAO,M;K;IASkB,gD;MAAA,qB;QAAE,+CAAI,EAJ,E;  
O;K;IAN/B,kC;MAMI,OAAO,kBAAU,gBAAV,EAk B,+BAA1B,C;K;IAiBiC,oE;MAAA,qB;QAAE,+CAAI,qBA  
Aa,EAAb,IAAJ,E;O;K;IAd9C,wD;MAYqC,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MAC3E,  
oCAAa,4BAAmB,UAA nB,EAA+B,QAA/B,EAAYC,gBAAzC,C;MACb,OAAO,kBAAU,WAAW,UAA X,IAAV,E  
AAiC,2CAAjC,C;K;IAGX,mC;MAQI,OAAO,WAAW,SAAX,EAiB,CAAjB,EAAoB,gBAApB,EAA0B,KAA1B,  
C;K;IAGX,mF;MAeI,0B;QAAA,aAAkB,C;MACIB,wB;QAAA,WAAgB,SAAK,O;MACrB,sC;QAAA,yBAkC,K  
;MAEiC,oCAAa,4BAAmB,UAA nB,EAA+B,QAA/B,EAAYC,SAAK,OAA9C,C;MACb,OAAO,WAAW,SAAX,E  
AAiB,UAAjB,EAA6B,QAA7B,EAuC,sBAAvC,C;K;IAGX,sC;MAQI,OAAO,WAAW,SAAX,EAiB,CAAjB,E  
AAoB,gBAApB,EAA4B,KAA5B,C;K;IAGX,sF;MAeI,0B;QAAA,aAAkB,C;MACIB,wB;QAAA,WAAgB,SAAK,  
O;MACrB,sC;QAAA,yBAkC,K;MAEiC,oCAAa,4BAAmB,UAA nB,EAA+B,QAA/B,EAAYC,gBAAzC,C;MACb  
,OAAO,WAAW,SAAX,EAiB,UAAjB,EAA6B,QAA7B,EAuC,sBAAvC,C;K;uFAGX,qB;MAMwD,OAAA,SA  
AY,c;K;mFAEpE,qB;MAWsD,OAAA,SAAY,c;K;uFAEIE,qB;MAMwD,OAAA,SAAY,c;K;mFAEpE,qB;MAWsD  
,OAAA,SAAY,c;K;yFAEIE,qC;MACoF,OAAA,SAAY,SAAQ,GAAR,EAAa,SAAb,C;K;iGAEHg,qC;MACwF,OA  
AA,SAAY,aAA Y,GAZ,EAiB,SAAjB,C;K;+FAEpG,kC;MACiF,OAAA,SAAY,YAAW,CAAX,EAAC,QAA d,C  
;K;2FAE7F,wB;MACgE,OAAA,SAAY,UAAS,CAAT,C;K;iFAE5E,iC;MACqE,OAAA,SAAY,WAAU,UAAV,C;  
K;mFAEjF,2C;MACoF,OAAA,SAAY,WAAU,UAAV,EAASB,QAA tB,C;K;4EAHhG,0B;MAGuD,OAAA,SAAY,  
QAAO,GAAP,C;K;wEAEnE,4B;MAGgE,OAAA,SAAY,OAAM,KAAN,C;K;yFAK5E,2C;MACyF,OAAA,SAAY,

SAAQ,OAAR,EAAiB,WAAjB,C;K;IAErG,iD;MAOkD,0B;QAAA,aAAsB,K;MACpE,IAAI,UAAJ,C;QACI,SAAS,SAAK,O;QACd,SAAS,KAAM,O;QACf,UTGG,MAAO,KSHM,ETGN,ESHU,ETGV,C;QSFV,IAAI,QAAO,CAA X,C;UAAc,OAAO,KAAC,EAAL,I;QACrB,iBAAc,CAAd,UAAsB,GAAtB,U;UACI,eAAe,qBAAK,KAAL,C;UAC f,gBAAgB,iBAAM,KAAN,C;UAEhB,IAAI,aAAY,SAAhB,C;YACI,WAAoB,cAAT,QAAS,C;YACpB,YAAsB,cA AV,SAAU,C;YAEtB,IAAI,aAAY,SAAhB,C;cACwB,kBAAT,Q;cAAX,WDIO2C,gCAAY,cAfrB,YAAAY,CAAZ,C; cCkPZ,kBAAV,S;cAAZ,YDnO2C,gCAAY,cAfrB,YAAAY,CAAZ,C;cCoPIC,IAAI,aAAY,SAAhB,C;gBACI,OAAg B,iBAAT,QAAS,EAAU,SAAV,C;;QAKhC,OAAO,KAAC,EAAL,I;;QAEP,OAAO,4BAAU,KAAY,C;;K;IAIf,4C; MAOqF,oCAAkB,KAAIB,C;K;IAErF,wD;MASI,OAAW,UAAJ,GACE,4BAAL,SAAK,EAA4B,KAA5B,CADF,G AGE,kBAAL,SAAK,EAAkB,KAAIB,C;K;IAIkD,oD;MAAU,OAAE,UAAF,CAAE,EAAU,CAAV,EAA0B,IAA1B ,C;K;;IAIvE,+C;MAAQ,oC;K;2F6G/SZ,oC;MACiF,O7G2Me,kB6G3ME,oBAAH,EAAG,C7G2MF,E6G3Mc,S7G 2Md,C;K;mG6GzMhG,oC;MACqF,O7G2Me,sB6G3MM,oBAAH,EAAG,C7G2MN,E6G3MkB,S7G2MIB,C;K;I6 GzMpG,mD;MAIoD,0B;QAAA,aAAsB,K;MACtE,IAAI,CAAC,UAAAL,C;QACI,O7GsMqF,qB6GtM7D,M7GsM6 D,E6GtMrD,C7GsMqD,C;;Q6GpMrF,OAAO,yBAAc,CAAd,EAAiB,MAAjB,EAAyB,CAAzB,EAA4B,MAAO,O AAnC,EAA2C,UAA3C,C;K;IAGf,iE;MAIqE,0B;QAAA,aAAsB,K;MACvF,IAAI,CAAC,UAAAL,C;QACI,O7G2Lq F,qB6G3L7D,M7G2L6D,E6G3LrD,U7G2LqD,C;;Q6GzLrF,OAAO,yBAAc,UAAAd,EAA0B,MAA1B,EAAkC,CAA IC,EAAqC,MAAO,OAA5C,EAAoD,UAApD,C;K;IAGf,iD;MAIkD,0B;QAAA,aAAsB,K;MACpE,IAAI,CAAC,U AAL,C;QACI,O7GmLoE,mB6GnL9C,M7GmL8C,C;;Q6GjLpE,OAAO,yBAAc,mBAAS,MAAO,OAAhB,IAAd,E AAsC,MAAtC,EAA8C,CAA9C,EAAiD,MAAO,OAAxD,EAAgE,UAAhE,C;K;IAGf,mC;MAGI,aACa,S7G0L2D, O6G1LhD,K7G0LgD,C;M6GzLxE,OAAO,kBAAkB,MAAO,OAAP,KAAe,C;K;IAG5C,4B;MAKoD,gCAAU,C;M AAV,U;QAAuB,kBAAR,yB;QAAQ,c;;UpH2nDvD,U;UADhB,IAAI,0CAAsB,qBAA1B,C;YAAqC,aAAO,I;YAA P,e;WACrB,+B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CoH3nD4D,aAAT,qBpH2nDxC,OoH3nD wC,CAAS,CpH2nDhE,C;cAAYB,aAAO,K;cAAP,e;;UAC/C,aAAO,I;;;QoH5nDgE,iB;OAAvB,W;K;IAEpD,gD;M ASiD,0B;QAAA,aAAsB,K;MAOxQ,Q;MAN3B,IAAI,iBAAJ,C;QAakB,OAAO,a;MACzB,IAAI,aAAJ,C;QAAM B,OAAO,K;MAC1B,IAAI,CAAC,UAAAL,C;QAAiB,OAAO,kBAAQ,KAAR,C;MAExB,IAAI,SAAK,OAAL,KAAe, KAAM,OAazB,C;QAAiC,OAAO,K;MAEb,OAAL,SAAK,O;MAA3B,iBAAc,CAAd,wB;QACI,eAAe,qBAAK,K AAL,C;QACf,gBAAgB,iBAAM,KAAN,C;QACHB,IAAI,CAAU,SAAT,QAAS,EAAO,SAAP,EAAkB,UAAIB,CA Ad,C;UACI,OAAO,K;;MAIf,OAAO,I;K;IAIX,sF;MACkH,0B;QAAA,aAAsB,K;MACpI,oCAAkB,UAAIB,EAA8 B,KAA9B,EAAqC,WAArC,EAAkD,MAAID,EAA0D,UAA1D,C;K;IAGJ,+B;MAYI,OvGmMmD,mBAAS,CuGn M5D,G7GwH4F,oB6GxHzD,C7GwHyD,E6GxHtD,C7GwHsD,CAvC9B,c6GjFrC,G7GqHoD,oB6GrHZ,C7GqHY, C6GrH7E,GAAyE,S;K;IAG7E,iC;MASI,OvGuLmD,mBAAS,CuGvL5D,G7G4G4F,oB6G5GzD,C7G4GyD,E6G5 GtD,C7G4GsD,CAIB9B,c6G1FrC,G7GyGoD,oB6GzGZ,C7GyGY,C6GzG7E,GAAyE,S;K;IAG7E,8B;MAOiB,IA AN,I;M1H/FP,IAAI,E0H8FI,KAAC,C1H9FT,CAAJ,C;QACI,c0H6Fc,oD;Q1H5Fd,MAAM,gCAAyB,OAAQ,WA AjC,C;O0H6FH,QAAM,CAAN,C;aACH,C;UAAK,S;UAAAL,K;aACA,C;UAAU,OAAL,SAAK,W;UAAV,K;gBAE I,aAAa,E;UACb,IAAI,EvGgKoC,qBAAU,CuGhK9C,CAAJ,C;YACI,QAAQ,SAAK,W;YACb,YAAAY,C;YACZ,O AAO,IAAP,C;cACI,IAAI,CAAC,QAAU,CAAX,MAAiB,CAArB,C;gBACI,UAAU,C;eAEd,QAAQ,UAAW,C;cA CnB,IAAI,UAAAS,CAAb,C;gBACI,K;eAEJ,KAAK,C;;;UAGb,OAAO,M;;MANbF,W;K;IAwBJ,4D;MAOqE,0B;QA AA,aAAsB,K;MACvF,O7GkFiG,kB6GIFnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAgB,KA AhB,GAA2B,IAA1D,C7GkFmF,E6GIFIB,6BAAM,iCAAwB,QAAXB,C7GkFY,C;K;I6GhFrG,4D;MAM+D,0B;Q AAA,aAAsB,K;MACjF,O7GyEiG,kB6GzEnF,WAAO,6BAAM,gBAAe,oBAAR,OAAQ,CAAf,CAAb,EAA6C,UA AJ,GAAgB,KAAhB,GAA2B,IAApE,C7GyEmF,E6GzEA,oBAAR,OAAQ,C7GyEA,C;K;I6GvErG,iE;MAC0E,0B; QAAA,aAAsB,K;MAC5F,O7GqEiG,kB6GrEnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAgB, IAAhB,GAA0B,GAAzD,C7GqEmF,E6GrEpB,6BAAM,iCAAwB,QAAXB,C7GqEc,C;K;I6GnErG,iE;MACoE,0B; QAAA,aAAsB,K;MACtF,O7GiEiG,kB6GjEnF,WAAO,6BAAM,gBAAe,oBAAR,OAAQ,CAAf,CAAb,EAA6C,U AAJ,GAAgB,IAAhB,GAA0B,GAAne,C7GiEmF,E6GjEF,oBAAR,OAAQ,C7GiEE,C;K;I8G7OrG,kD;MAEI,IAAI ,gBAAJ,C;QAAsB,MAAM,6BAAyB,qCAAkC,QAAQ,CAAR,IAAIC,CAAzB,C;MAC5B,OAAO,CAAC,IAAD,I; K;IAGX,iF;MAQI,IAAI,EAAS,KAAT,oBAAiB,KAAjB,KAA2B,SAAS,QAAxC,C;QACI,OAAO,UAAU,CAAV,E AAa,KAAb,EAAoB,gBAApB,C;OAEX,UAAU,kBAAO,KAAP,C5GwBgC,I;M4GvB1C,IAAI,EAAQ,KAAR,kBA AgB,KAAhB,CAAJ,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,OAAO,SAAW,CA

AC,OAAS,IAAV,KAAqB,EAAhC,IAAwC,MAAQ,I;K;IAG3D,yE;MAQI,IAAI,SAAU,EAAV,MAAkB,CAAIB,IA  
AuB,SAAS,QAAP,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAEX,YAAY,KAAa,CAA  
P,KAAO,C;MACzB,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,g  
BAAPB,C;OAEX,OAAQ,SAAU,CAAX,GAAkB,KAAIB,GAA4B,I;K;IAGvC,yE;MASI,IAAI,SAAS,QAAb,C;QA  
CI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAGX,YAAY,KAAa,CAAP,KAAO,C;MACzB,IAAI  
,SAAU,EAAV,MAAiB,CAArB,C;QACI,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EA  
Aa,KAAb,EAAoB,gBAAPB,C;gBAER,IAAI,SAAU,EAAV,MAAiB,EAARb,C;QACH,IAAI,SAAU,GAAV,MAAk  
B,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;gBAER,IAAI,SAAU,GAAV,MAAkB  
,GAAtB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAGX,IAAI,SAAQ,CAAR,UAAa,Q  
AAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAEX,YAAY,KAAiB,CAAX,QAAQ,C  
AAR,IAAW,C;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAo  
B,gBAAPB,C;OAGX,OAAQ,SAAU,EAAX,GAAoB,SAAU,CAA9B,GAAqC,KAArC,GAA+C,O;K;IAG1D,yE;M  
ASI,IAAI,SAAS,QAAb,C;QACI,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAGJ,YAAY,KAAa,CAAP,K  
AAO,C;MACzB,IAAI,SAAU,EAAV,MAAiB,CAArB,C;QACI,IAAI,SAAU,GAAV,KAAkB,GAAtB,C;UAEI,OA  
AO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;gBAER,IAAI,SAAU,EAAV,MAAiB,CAArB,C;QACH,IAA  
I,SAAU,GAAV,MAAkB,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;gBAER,IAAI,  
SAAU,EAAV,IAAgB,CAAPB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;aACJ,IAAI,SA  
AU,GAAV,MAAkB,GAAtB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAGX,IAAI,SA  
AQ,CAAR,UAAa,QAAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAEX,YAAY,KAAi  
B,CAAX,QAAQ,CAAR,IAAW,C;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,  
EAAa,KAAb,EAAoB,gBAAPB,C;OAGX,IAAI,SAAQ,CAAR,UAAa,QAAjB,C;QACI,OAAO,UAAU,CAAV,EA  
Aa,KAAb,EAAoB,gBAAPB,C;OAEX,YAAY,KAAiB,CAAX,QAAQ,CAAR,IAAW,C;MAC7B,IAAI,SAAU,GAA  
V,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAAPB,C;OAEX,OAAQ,SAAU,EAA  
X,GAAoB,SAAU,EAAX,GAA9B,GAAuB,C;SAAU,CAAjD,GAAwD,KAAxD,GAAkE,O;K;;;IamB7E,oE;MakB0B,UAGJ,  
MAHI,EAKJ,MALI,EAMJ,MANI,EASJ,MATI,EAUJ,MAVI,EAUJ,MAXI,EAqBA,MAhBA,EAiBA,MAjBA,EA  
kBA,MAiBA,EAoBA,MApBA,EAqBA,OAraBA,EAaBA,OAAtBA,EAuBA,O;M3H9JtB,IAAI,E2HgII,cAAc,CAAd,I  
AAmB,YAAY,MAAO,OAAtC,IAAgD,cAAc,Q3HhIIIE,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,  
WAAjC,C;O2HgIV,YAAY,cAAU,CAAC,WAAW,UAAAX,IAAD,IAA0B,CAA1B,IAAV,C;MACZ,gBAAgB,C;M  
AChB,gBAAgB,U;MAEhB,OAAO,YAAY,QAAnB,C;QACI,WAAW,mBAAO,gBAAP,EAAO,wBAAP,Q5G1H2  
B,I;Q4G4HIC,WAAO,GAAP,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA0B,OAAL,IAAK,C;eAC9B,WAAO,  
IAAP,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA4C,OAArB,QAAS,CAAV,GAAgB,GAAM,C;UAC5C,MA  
AM,kBAAN,EAAM,0BAAN,YAA+C,OAAXB,OAAS,EAAV,GAAMB,GAAM,C;eAEnD,WAAO,KAAP,IAAiB,  
QAAQ,KAAzB,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA6C,OAAtB,QAAS,EAAV,GAAiB,GAAM,C;UA  
C7C,MAAM,kBAAN,EAAM,0BAAN,YAAuD,OAAB,QAAS,CAAV,GAAiB,EAAIB,GAA2B,GAAM,C;UACvD  
,MAAM,kBAAN,EAAM,0BAAN,YAA+C,OAAXB,OAAS,EAAV,GAAMB,GAAM,C;;UAG/C,gBAAgB,uBAAu  
B,MAAvB,EAA+B,IAA/B,EAAqC,SAArC,EAAGD,QAAdD,EAA0D,gBAA1D,C;UACbB,IAAI,aAAa,CAAjB,C;  
YACI,MAAM,kBAAN,EAAM,0BAAN,YAAqB,0BAA0B,CAA1B,C;YACrB,MAAM,kBAAN,EAAM,0BAAN,Y  
AAqB,0BAA0B,CAA1B,C;YACrB,MAAM,kBAAN,EAAM,0BAAN,YAAqB,0BAA0B,CAA1B,C;;YAErB,MAA  
M,kBAAN,EAAM,0BAAN,YAAkD,0AA3B,aAAc,EAaf,GAAsB,GAAM,C;YACID,MAAM,mBAAN,EAAM,2B  
AAN,aAA6D,OAArC,aAAc,EAaf,GAAuB,EAAXB,GAAiC,GAAM,C;YAC7D,MAAM,mBAAN,EAAM,2BAAN,  
aAA4D,OAAPC,aAAc,CAAF,GAAsB,EAavB,GAAGC,GAAM,C;YAC5D,MAAM,mBAAN,EAAM,2BAAN,aAA  
oD,0AA7B,YAAc,EAaf,GAawB,GAAM,C;YACpD,6B;;;MAMhB,OAAW,KAAM,OAAN,KAAc,SAAiB,GAA  
6B,KAA7B,GAA8C,UAAN,KAAM,EAAO,SAAP,C;K;;IAQzD,mE;MAiByB,Q;M3H9LrB,IAAI,E2HwLI,cAAc,C  
AAAd,IAAmB,YAAY,KAAM,OAArC,IAA6C,cAAc,Q3HxL/D,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,O  
AAQ,WAAjC,C;O2HwLV,gBAAgB,U;MACbB,oBAAoB,sB;MAEpB,OAAO,YAAY,QAAnB,C;QACI,WAAW,K  
AAmB,CAAb,gBAAa,EAAb,wBAAa,O;QAE1B,YAAQ,CAAR,C;UACI,aAAc,gBAAy,OAAL,IAAK,CAAZ,C;a  
ACIB,YAAS,CAAT,KAAc,EAAd,C;UACI,WAAW,eAAe,KAAf,EAAsB,IAAtB,EAA4B,SAA5B,EAuB,C,QAavC  
,EAAiD,gBAAjD,C;UACX,IAAI,QAAQ,CAAZ,C;YACI,aAAc,gBAAO,gBAAP,C;YACd,yBAAa,CAAC,IAAD,I

AAb,K;;YAEA,aAAc,gBAAY,OAAL,IAAK,CAAZ,C;YACd,wBAAa,CAAb,I;;eAGR,YAAS,CAAT,KAAc,EAAd,C;UACI,aAAW,eAAe,KAAf,EAAsB,IAAtB,EAA4B,SAA5B,EAAuC,QAAvC,EAAiD,gBAAjD,C;UACX,IAAI,UAAQ,CAAZ,C;YACI,aAAc,gBAAO,gBAAP,C;YACd,yBAAa,CAAC,MAAD,IAAb,K;;YAEA,aAAc,gBAAY,OAAL,MAAK,CAAZ,C;YACd,wBAAa,CAAb,I;;eAGR,YAAS,CAAT,KAAc,EAAd,C;UACI,aAAW,eAAe,KAAf,EAAsB,IAAtB,EAA4B,SAA5B,EAAuC,QAAvC,EAAiD,gBAAjD,C;UACX,IAAI,UAAQ,CAAZ,C;YACI,aAAc,gBAAO,gBAAP,C;YACd,yBAAa,CAAC,MAAD,IAAb,K;;YAEA,WAAy,MAAD,GAAQ,KAAR,IAAqB,EAAR,B,GAAB,K;YACtC,UAAW,SAAS,IAAV,GAAoB,K;YAC9B,aAAc,gBAAY,OAAL,IAAK,CAAZ,C;YACd,aAAc,gBAAW,OAAJ,GAAI,CAAX,C;YACd,wBAAa,CAAb,I;;UAIJ,UAAU,CAAV,EAAa,SAAb,EAAwB,gBAAxB,C;UACA,aAAc,gBAAO,gBAAP,C;;MAK1B,OAAO,aAAc,W;K;ICtQzB,uC;MAU2D,OAAwB,CAAxB,2BAAwB,mBAAS,SAAT,C;K;IAEnF,oC;MAKI,OAAQ,OAAW,mBAAL,SAAK,CAAX,C;K;IAGZ,6C;MAMI,IAAI,cAAS,SAAb,C;QACI,iBAAsB,SAAY,Y;QACIC,IAAI,kBAAJ,C;UACS,SAAL,eAA+B,iBAAc,SAAd,E;;UAE/B,UAAW,WAAI,SAAJ,C;;Q;IAUnB,6C;MAC4B,UAAjB,M;MAAP,OAAO,WAAiB,OAAZ,SAAY,YAAjB,4CAA+D,W;K;IAI9E,iC;MACI,gBAAqB,sB;MACrB,iBAAsB,E;MACtB,kBAA+B,E;MAC/B,uBAAiC,C;K;uDAEjC,qB;MACc,qBAAV,SAAU,EAAc,EAAd,EAakB,EAaIB,C;MACV,OAAO,aAAO,W;K;gDAGlB,qB;MAA6D,gBAAR,c;MAAQ,c;;Q1I41Y7C,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAAsB,IAAc,O0I51Y+B,c1I41Y7C,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;M0I71Y8C,iB;K;sDAErD,wC;MACI,KAAK,qBAAL,SAAK,EAAC,MAAd,EAAsB,SAAtB,CAAL,C;QAAyC,M;MAEzC,YAAY,SAAK,M;MACjB,OAAO,aAAP,C;QACI,KAAM,qBAAN,KAAM,EAAc,MAAd,EAAsB,aAAtB,CAAN,C;UAA8C,M;QAC9C,QAAQ,KAAM,M;;K;sDAItB,wC;MASgB,IAAiB,IAAjB,EA2BE,M;MAnCd,aAAO,gBAAO,MAAP,CAAe,gBAAO,SAAP,C;MACtB,gBAAgB,SAAK,W;MACrB,IAAI,eAAQ,SAAR,CAAJ,C;QACI,aAAO,gBAAO,kCAAP,CAA2C,gBAAO,SAAP,CAakB,gBAAO,KAAP,C;QACpE,OAAO,K;OAEH,cAAY,MAAK,SAAL,C;MAEpB,YAAY,CAAiB,OAAZ,SAAY,MAAjB,2D;MACZ,IAAI,aAAJ,C;QzHyBG,SyHxBwB,WAAAN,KAAM,EAAQ,SAAR,C;QAAvB,iBAAoD,KAAK,CAAT,GAAY,C,AAZ,GAAMB,KAAe,gBAAf,I;QACnE,IAAI,eAAc,CAAIb,C;UAAqB,aAAO,gBAAO,SAAP,CAakB,gBAAO,IAAP,C;QAC9C,IAAI,ezG8MoC,YAAU,CyG9MID,C;UACI,kBAAW,K;UACX,uBAAgB,U;;UAEhB,QAAQ,wBAAiB,KAAjB,EAAwB,UAAxB,C;;QAEZ,IAAI,MzGgNuC,UAAS,CyGhNpD,C;UAEuB,U;UAAA,IAAI,eAAc,CAAIb,C;YAAA,SAAQ,B,C;;Y1Gq+BpC,U;YADhB,YAAY,C;YACI,oB0Gr+B+C,S1Gq+B/C,C;YAAhB,OAAgB,gBAAhB,C;cAAGB,sC;cAAM,I0Gr+BgE,U1Gq+BiD,oB0Gr+BkD,MAAK,E1Gq+BrE,C;gBAAwB,qB;;Y0Gr+Bf,SAAB,4B,I1Gs+BpD,K0Gt+BoD,I;;UAA/C,yB;U5GorCC,kB;UADb,YAAY,C;UACC,S4GnrCK,aAAN,KAAM,C5GmrCL,W;UAAb,OAAa,gBAAb,C;YAAa,wB;Y4GlrCG,I5GkrCU,oBAAMb,cAAnB,EAAMb,sBAANb,U4GlrCN,gBAAJ,C;cAA2B,aAAO,uB;YACIC,aAAO,gB5GirCgC,I4GjrChC,CAAa,gBAAO,IAAP,C;;UAGxB,aAAO,gBAAO,KAAP,CAAc,gBAAO,IAAP,C;;QAGzB,aAAO,gBAAO,SAAP,CAakB,gBAAO,IAAP,C;;MAG7B,iBAAiB,mC;MACjB,IpIuHoD,CoIvHhD,UpIuHiD,UoIvHrD,C;QACI,uBAAuB,SAAS,M;QACtB,8B;QAAV,OAAU,gBAAV,C;UAAU,qB;UACJ,qBAAF,CAAE,EAAc,gBAAAd,EAAGC,cAAhC,C;;OAGV,OAAO,I;K;yDAGX,6B;MAIwB,Q;MAHpB,mBAAwB,C;MACxB,gBAAqB,C;MACrB,mBAAwB,C;MACJ,OxHyIjB,MAAO,KwHzIgB,eAAS,OAAT,GAakB,oBAAlB,IxHyIhB,EwHzIiD,KAAM,OAAN,GAAe,UAAf,IxHyIjD,C;MwHzIV,eAAY,CAAZ,oB;QACI,QA AQ,iBAAY,iBAAN,KAAM,CAAN,GAakB,GAAIB,IAAN,C;QACR,IAAI,MAAK,2BAakB,iBAAT,eAAS,CAAT,GAAqB,GAAR,B,IAAT,CAAT,C;UAA6C,K;QAC7C,IAAI,MAAK,EAAT,C;UACI,8BAAGB,CAAhB,I;UACA,eAAe,S;UACf,YAAY,G;;MAGpB,IAAI,gBAAgB,CAApB,C;QAAuB,OAAO,K;MAC9B,OAAO,eAAe,CAAf,IAAoB,iBAAY,iBAAN,KAAM,CAAN,IAAMb,YAANb,GAakC,CAAIC,KAAN,MAA+C,EAA1E,C;QACI,8BAAGB,CAAhB,I;MAGJ,OAAa,YAAN,KAAM,EAAS,YAAT,CAAN,IAA+B,cAAW,eAAe,CAAf,IAAX,uCAA/B,C;K;;yHC/H+C,Y;MAAQ,W;K;IAEtE,gD;MACKB,UAMP,M;MANO,IAAI,aAAY,CAAhB,C;QACV,Y;;QAEA,UxBsY8C,MAAW,KwBtY/C,IxBsY+C,EwBtYtC,QxBsYsC,C;QwBrYzD,OAAA,IAAO,OxB2UmC,MAAW,KwB3UpC,KxB2UoC,CwB3UxC,GAAa,GAANb,CAAP,GAAiC,GAAjC,GxBwV2C,MAAW,MwBxVv,KxBwVU,C;;MwB5V1D,kB;MAMO,IxBYUuC,MAAW,KwBzU1C,OxBYU0C,CwBzU9C,GAAe,MAANb,C;QAEmC,SAA9B,OAAy,SAAQ,QAAR,C;;QAGpB,exBoU0C,MAAW,KwBpUIC,OxBoukC,C;QwBnUrD,qBAA8B,QAAy,axBgRC,MAAW,MAvCV,MAAW,OwBzOU,QxBYOV,CAuCD,CwBhRA,GAAwB,QAAPC,C;QAC1C,SAAI,UAAU,CAAd,GA AiB,MAAG,cAApB,GAAyC,c;;MAP7C,a;K;IAWJ,6C;MACI,OAAa,KAAy,gBAAe,OAAf,EAAwB,MAAK,4BA A2B,QAA3B,CAAL,EAAxB,C;K;ICtBQ,4C;MAFrC,e;MAEsC,0B;MAFtC,iB;MAAA,uB;K;IAAA,mC;MAAA,sC

;O;MAGI,uEAGY,GAHZ,C;MAIA,yEAGa,MAHb,C;MAIA,yEAGa,SAHb,C;MAIA,+DAGQ,KAHR,C;MAIA,+DAGQ,MAHR,C;MAIA,2DAGM,MAHN,C;MAIA,yDAGK,OAHL,C;K;;IAxBA,gD;MAAA,yB;MAAA,wC;K;;IAIA,iD;MAAA,yB;MAAA,yC;K;;IAIA,iD;MAAA,yB;MAAA,yC;K;;IAIA,4C;MAAA,yB;MAAA,oC;K;;IAIA,4C;MAAAA,yB;MAAA,oC;K;;IAIA,0C;MAAA,yB;MAAA,kC;K;;IAIA,yC;MAAA,yB;MAAA,iC;K;;IA3BJ,+B;MAAA,4Q;K;;IAAA,oC;MAAA,a;AAAA,a;UAAA,6C;AAAA,c;UAAA,8C;AAAA,c;UAAA,8C;AAAA,S;UAAA,yC;AAAA,S;UAAA,yC;AAAA,O;UAAA,uC;AAAA,M;UAAA,sC;gBAAA,6D;;K;;IAiCA,4D;MAGW,Q;MADP,0BAA2C,iBAAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;MAEvC,0BAAsB,CAAtB,C;QAA2B,gBAAS,UAAW,cAAX,GAAmB,UAAW,cAAvC,C;WAC3B,0BAAsB,CAAtB,C;QAA2B,gBAAS,UAAW,cAAX,GAAmB,UAAW,cAAvC,C;;QACnB,Y;MAHZ,W;K;IAOJ,oE;MAGW,Q;MADP,0BAA2C,iBAAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;MAEvC,0BAAsB,CAAtB,C;QAA2B,sBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;WAC3B,0BAAsB,CAAtB,C;QAA2B,iBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;;QACnB,Y;MAHZ,W;K;IAOJ,8D;MAGW,Q;MADP,0BAA2C,iBAAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;MAEvC,0BAAsB,CAAtB,C;QACI,YAAkD,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,C;QACID,aAAa,eAAQ,KAAR,C;QAET,sBAAS,KAAT,GAAB,KAAIB,E;UAA2B,a;AC3B,uBAAQ,CAAR,C;;;aAIR,0BAAsB,CAAtB,C;QAA2B,iBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;;QACnB,Y;MAXZ,W;K;ICrDJ,+B;MAAA,mC;MAUuB,wB;MALf,aAAR,OAAO,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAX,IAAwB,CAAC,CAAC,OAAO,SAAS,K;MADpE,sBAGQ,MAHR,GAIQ,iBAAa,OAAb,CAJR,GAMQ,qBAAW,OAAX,IAAA,4GACO,+B;K;4CAIf,Y;MAAmC,OAAA,mBAAa,U;K;;IAfpD,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAwB2B,+B;MAAC,sB;K;IAEW,+D;MAAA,0C;MAAS,mB;MACxC,iBAAgB,yBAAQ,S;K;8DACxB,Y;M5HyEG,Q4HxEC,8BAAQ,QAAO,cAAP,C;MAAyB,c7IZIC,EAAI,CAAJ,C;M6IY2C,Y7IuF3C,EAAI,CAAJ,C;M6IvFC,OAA4D,aAAR,OAAQ,qCAAR,aAAiD,aAN,KAAM,yCAAjD,C;K;;qCAH5D,Y;MAAmC,mD;K;sCAMnC,Y;MAAkC,qC;K;;IAKF,4C;MAAAiC,4E;MAAhC,8B;K;2CACjC,Y;MAA8B,OAAA,gBAAy,M;K;+CAC1C,Y;MAAkC,2C;K;;IAGtC,6B;MAAA,iC;MAEoC,4E;K;uCAChC,Y;MAA8B,OAAe,U;K;2CAC7C,Y;MAAkC,+B;K;;IAJtC,yC;MAAA,wC;QAAA,uB;OAAA,iC;K;IC1CA,gD;MAQ+B,kBAApB,wBAAC,IAAd,C;MAA0B,I7HgEjC,a;M6HhEA,O7HiEO,W;K;I6H9DX,gD;MAQqD,kBAA1B,gBAAhB,sCAAgB,EAAc,IAAd,EAAoB,IAApB,C;MAAiC,sB7HoEID,W6HpEkD,C;MAAxD,O7HqEO,W;K;I8HzFX,yC;MAEkD,8B;MAAA,OCGN,aDHwB,yBAAa,QAAb,mCCGxB,C/G+xBgC,sB;K;I8GhyB5E,2C;M/IggIW,kBAAy,gB;MAoGH,Q;MAAhB,wB+I7IqB,U/I6IIRB,gB;QAAgB,c+I7Iik,U/I6IIRB,M;QAAAsB,IAAI,C+I7IikB,sB/I6IIP,O+I7IIO,C/I6IItB,C;UAAyB,WAAY,WAAL,OAAJ,C;;M+I7Ii3D,qB/I8IIO,W;M+I7IIP,IzIgNwD,CyIhNpD,czIgNqD,UyIhNzD,C;Q9GgKuC,U;Q8G/JnC,qB9G+JyD,OAAtB,+B8G/Jd,mB9G+Jc,uBAAsB,CAAo,W;QsGkO7C,kBAAhB,sB;QQ/XC,0C;QACA,IAAI,E9G8QoC,0BAAU,C8G9Q9C,CAAJ,C;UACI,2BAAO,GAAP,C;SAEW,sCAAa,GAAb,C;QALnB,sB9H4DG,WsHoUqC,W;QqzXxC,OAAO,I;OAGX,OAAO,K;K;IAGX,8C;MAOmB,c;;Q/Ii3YC,Q;QAAhB,wB+Ij3YI,U/Ii3YJ,gB;UAAgB,c+Ij3YZ,U/Ii3YJ,M;UAAsB,I+Ij3YD,sB/Ii3Ye,O+Ij3Yf,C/Ii3YC,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;M+Ii3YP,e;QACI,kBAA6B,MAAX,UAAW,C;Q9GyIM,U;Q8GxIb,a9GwImC,OAAtB,+B8GxIvB,mB9GwIuB,uBAAAsB,CAAo,W;Q8GxIX,kBC/BjB,aD+B D,MC/BC,C/Gg1C6C,uBAAzB,CAAyB,C;QbnmB9E,kBAAS,gB;QA2FA,U;QAAA,+B;QAAhB,OAAGB,gBAAhB,C;UAAgB,6B;UAAAM,I2HzYB4C,4B3HyYB9B,S2HzYB8B,C3HyYB5C,C;YAAwB,WAAY,WAAL,SAAJ,C;;Q2HzYBtD,sBAAMf,e3H0yBhF,W2H1yBgF,EAAa,GAAb,C;QACnF,OAAO,I;OAGX,OAAO,K;K;IEnCP,iC;MAAQ,8BAAY,IAAK,UAAjB,IAA8B,uBAAy,IAAK,mB;K;IAOvD,oC;MAAQ,8BAAY,IAAK,a;K;ICZ7B,4B;MAGI,OAAO,yBAAP,C;QACI,sBAAY,mCAAZ,C;;K;IAIR,uC;MAOI,sBAAY,sCAAAGB,gBAAe,IAAf,CAA5B,C;MACA,OAAO,S;K;ICbP,4B;MAAQ,mB;K;IACR,mC;MACI,eAAO,K;K;IAKX,4B;MAAQ,mB;K;IACR,mC;MACI,eAAO,K;K;iHCoBf,sJ;MAEyC,qB;QAAA,QAAB,I;MAAM,qB;QAAA,QAAB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,yB;QAAA,YAAsB,I;MAAM,kC;QAAA,qBAA+B,I;MAAM,qC;QAAA,wBAAC,K;MAAO,+C;QAAA,kCAA4C,K;MAAO,4C;QAAA,+BAAYC,K;MACTt,QAAQE;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iCAAF,IAAuC,+B;MACvC,EAAE,8BAAF,IAAoC,4B;MACpC,OAAO,C;K;+GAw0BX,wD;MAEW,C,6B;QAAA,gBAAyB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/I,QAAQE;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHb,OAAO,C;K;6EA6CX,4B;MAE6D,iBAAy

,KAAZ,C;K;6EAE7D,mC;MAEoE,UAA Y,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAE8D,iBAAY,KAAZ,C;K;6EAE9D,mC;MAEqE,UAA Y,KAAZ,IAAqB,K;K;6EAuB1F,4B;MAEqE,iBAAY,KAAZ,C;K;6EAErE,mC;MAE4E,UAA Y,KAAZ,IAAqB,K;K;6EAuBjG,4B;MAE+D,iBAAY,KAAZ,C;K;6EAE/D,mC;MAEsE,UAA Y,KAAZ,IAAqB,K;K;6EAuB3F,4B;MAEgE,iBAAY,KAAZ,C;K;6EAEhE,mC;MAEuE,UAA Y,KAAZ,IAAqB,K;K;6EAuB5F,4B;MAE6D,iBAAY,KAAZ,C;K;6EAE7D,mC;MAEoE,UAA Y,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAE8D,iBAAY,KAAZ,C;K;6EAE9D,mC;MAEqE,UAA Y,KAAZ,IAAqB,K;K;6EAuB1F,4B;MAEiE,iBAAY,KAAZ,C;K;6EAEjE,mC;MAEwE,UAA Y,KAAZ,IAAqB,K;K;6EAuB7F,4B;MAEkE,iBAAY,KAAZ,C;K;6EAEiE,mC;MAEyE,UAA Y,KAAZ,IAAqB,K;K;6GC3oC9F,wD;MAEqC,6B;QAAA,gBAA+B,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpJ,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;mIAiCX,+B;MAEgD,mC;QAAA,sBAAgC,K;MAC5E,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,OAAO,C;K;4EC9CX,4B;MAEgE,iBAAY,KAAZ,C;K;4EAgChE,4B;MAEyE,iBAAY,KAAZ,C;K;4EaiBzE,4B;MAEmE,iBAAY,KAAZ,C;K;4EAyYnE,4B;MAEOE,iBAAY,KAAZ,C;K;oIC7a1E,4H;MAE8C,qB;QAAA,QAAiB,E;MAAI,6B;QAAA,gBAAgC,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,qC;QAAA,wBA mJvJ,U;OAnJqO,+B;QAAA,kBA mJrO,U;OAnJ6S,4B;QAAA,eAA+B,S;MAC3a,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,eAAF,IAAqB,a;MACrB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,cAAF,IAAoB,Y;MACpB,OAAO,C;K;wIAYX,mC;MAEgD,2B;QAAA,cAAuB,E;MAAI,0B;QAAA,aAA sB,E;MAC7F,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MACnB,EAAE,YAAF,IAAkB,U;MACIB,OAAO,C;K;8HakEX,+D;MAEqG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;4HAwBX,iE;MAE0C,4B;QAAA,eAAwB,E;MAAI,wB;QAAA,WAAyB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;sGAUqE,qB;MAAQ,OAAW,U;K;sGAEnB,qB;MAAQ,OAAW,U;K;4GAEhB,qB;MAAQ,OAAc,a;K;wGAS1B,qB;MAAQ,OAA Y,W;K;0HAEX,qB;MAAQ,OAAqB,oB;K;kGASnD,qB;MAAQ,OAA S,Q;K;oGAEhB,qB;MAAQ,OAAU,S;K;sGAEjB,qB;MAAQ,OAAW,U;K;wHAEV,qB;MAAQ,OAAoB,mB;K;wHAE5B,qB;MAAQ,OAAoB,mB;K;kHAE/B,qB;MAAQ,OAAiB,gB;K;kHAEzB,qB;MAAQ,OAAiB,gB;K;oHASd,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;wIAEhB,qB;MAAQ,OAA4B,2B;K;4FC1MnI,uD;MAE8B,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACHJ,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;kGAuBX,sE;MAEiC,6B;QAAA,gBAA8B,I;MAAM,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACvL,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;kGA8DX,8U;MAEiC,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SA AiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SA AkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SA AmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC3wB,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MACIB,EA



AE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;wGAgDX,kQ;MAEoC,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC7IB,QAA Q,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE, SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAA kB,U;MACIB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB, EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBA AAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf ,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;kGAsCX,iX;MAEiC,sB;QAAA,S AAKB,G;MAAK,sB;QAAA,SAAKB,G;MAAK,sB;QAAA,SAAKB,G;MAAK,yB;QAAA,YAAkB,C;MAAG,uB;Q AAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAA G,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAKB,I; MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,U AAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8 B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B, K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAA A,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB; QAAA,WAAqB,K;MACr2B,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAA E,QAAF,IAAc,M;MACd,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MA Cf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe, O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA F,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MAC xB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE, eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAq B,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,E AAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB, Q;MACHB,OAAO,C;K;kGA2BX,0E;MAEiC,oB;QAAA,OAAgB,E;MAAI,2B;QAAA,cAAwB,K;MAAO,oB;QAA A,OAAgB,I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB; QAAA,WAAqB,K;MACtM,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EA AE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;M ACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;wGAmDX,4S;MAEoC,mB;QAAA,MAAe,E;MAAI,oB;QAA A,OAAgB,E;MAAI,wB;QAAA,WAAiB,C;MAAG,sB;QAAA,SAAmB,K;MAAO,2B;QAAA,cAAwB,K;MAAO,u B;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K; MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,i BAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO, 6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB, I;MAAM,sB;QAAA,SA Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WA AqB,K;MACjtB,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IA AgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EA AE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB ,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,gBAAF,IAAsB,c;MACt B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eA

AF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAA F,IAAgB,Q;MACHB,OAAO,C;K;8GAuBX,6D;MAEuC,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,I;MAA M,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K ;MAC7K,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;M ACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K; wECnbX,4B;MAEyE,iBAAY,KAAZ,C;K;wEAEzE,2B;MAEgG,iBAAY,IAAZ,C;K;wEAwBhG,oC;MAE+F,UAA Y,KAAZ,IAAqB,M;K;wEAmFpH,2B;MAEqE,iBAAY,IAAZ,C;K;wEAErE,kC;MAE2E,UAAAY,IAAZ,IAAoB,K;K ;wEAssC/F,4B;MAEyE,iBAAY,KAAZ,C;K;wEA0BzE,4B;MAEyE,iBAAY,KAAZ,C;K;wEAsBzE,4B;MAEuE,iB AAY,KAAZ,C;K;wEAyBvE,4B;MAE6E,iBAAY,KAAZ,C;K;2FA4C7E,gD;MAEiC,qB;QAAA,QAAiD,I;MAAM, uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACIK,QAAQ,E;MACR,EA AE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q; MACHB,OAAO,C;K;uEA+UX,4B;MAEuE,iBAAY,KAAZ,C;K;wEAEvE,2B;MAE6F,iBAAY,IAAZ,C;K;wEAqN 7F,4B;MAEyE,iBAAY,KAAZ,C;K;wEAEzE,oC;MAE2F,UAAAY,KAAZ,IAAqB,M;K;+FAuehH,wD;MAEmC,6B; QAAA,gBAA8B,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;M ACjJ,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MA CIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;uGAuIX,mB;MAEuC,uB;QAAA,UAAoB,K;MACvD,QAAQ,E; MACR,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+HAYCX,iB;MAEmD,qB;QAAA,QAaKB,I;MACjE,QAAQ,E;M ACR,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;+FA0MX,sE;MAEmC,oB;QAAA,OAAgB,I;MAAM,wB;QAAA, WA0+G4B,S;OA1+GwB,kB;QAAA,KAAc,E;MAAI,wB;QAAA,WAAoB,I;MAAM,sB;QAAA,SAaKB,S;MAAW, uB;QAAA,UAAoB,I;MAAM,qB;QAAA,QAAiB,I;MAAM,oB;QAAA,OAAgB,I;MACnP,QAAQ,E;MACR,EAAE, MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,IAAF,IAAU,E;MACV,EAAE,UAAF,IAAgB,Q;M AChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,I AAY,I;MACZ,OAAO,C;K;qIAGDX,iB;MAEsD,qB;QAAA,QAaKB,I;MACpE,QAAQ,E;MACR,EAAE,OAAF,IA Aa,K;MACb,OAAO,C;K;+GAKBX,qB;MAE2C,yB;QAAA,YAAmB,S;MAC1D,QAAQ,E;MACR,EAAE,SAAF,IA Ae,S;MACf,OAAO,C;K;wEAKCX,4B;MAEqF,iBAAY,KAAZ,C;K;yFAgCrF,4V;MAEgC,4B;QAAA,eAA8B,I;M AAM,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAA gB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAA A,SAaKB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO, uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB, K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAA A,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MA AO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K; MAAO,wB;QAAA,WAAqB,K;MAC9yB,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,SAAF,IAAe,O ;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IA Ac,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,S AAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf ,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MACIB,EAAE, gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B ,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B, EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB, U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;wEAwEX,2B;MAE+D,iBAAY,IAAZ,C;K;iGA2D/D,gD; MAEoC,qB;QAAA,QAAc,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WA AqB,K;MACII,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB ,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;qGA2BX,yD;MAEsC,sB;QAAA,SAaKB,E;MAAI,sB;Q AAA,SAaKB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC5 J,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EA AE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;6GAuBX,oD;MAE0C,yB;QAAA,YA

AsB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;2FAoFX,kF;MAEiC,uB;QAAA,UAAmB,E;MAAI,wB;QAAA,WAAoB,E;MAAI,sB;QAAA,SA Ae,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjN,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;iHAYBX,0D;MAEqE,sB;QAAA,SA Ae,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACzK,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEAmXX,4B;MAEkE,iBAAY,KAAZ,C;K;wEAEIE,2B;MAEoE,iBAAY,IAAZ,C;K;wEAUPE,4B;MAEsE,iBAAY,KAAZ,C;K;wEAETe,2B;MAEW e,iBAAY,IAAZ,C;K;wEAaxE,4B;MAE+D,iBAAY,KAAZ,C;K;wEAE/D,2B;MAEiE,iBAAY,IAAZ,C;K;mGA0CjE,8G;MAEqC,gC;QAAA,mBAooF8C,M;OApoFe,gC;QAAA,mBAmpFT,S;OAnpFyE,oC;QAAA,uBA8pFjE,S;OA9pF6I,2B;QAAA,cAAoB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,6B;QAAA,gBAyqFIO,K;OAxqFvE,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,sBAAF,IAA4B,oB;MAC5B,EAAE,aAAF,IAAmB,W;MACnB,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,eAAF,IAAqB,a;MACrB,OAAO,C;K;+FAwCX,mF;MAEmC,oB;QAAA,OAAa,I;MAAM,sB;QAAA,SAAkB,E;MAAI,2B;QAAA,cAAuB,E;MAAI,sB;QAAA,SAAY,C,I;MAAM,qB;QAAA,QAA6B,E;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACxQ,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6FA4BX,2B;MAEkC,+B;QAAA,kBAA4B,K;MAC1D,QAAQ,E;MACR,EAAE,iBAAF,IAAuB,e;MACvB,OAAO,C;K;2FA2DX,iE;MAEiC,wB;QAAA,WAAqB,K;MAAO,oB;QAAA,OAAe,C;MAAG,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;yFA8FX,6B;MAEgC,oB;QAAA,OA+7E6C,S;OA/7EL,2B;QAAA,cCl2He,M;ODm2HnF,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,OAAO,C;K;wEAoDX,0B;MAE+D,iBAAY,GAAZ,C;K;wEAE/D,iC;MAEqE,UAA Y,GAAZ,IAAmB,K;K;+FAoDxF,oF;MAEmC,mB;QAAA,MAAe,I;MAAM,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAoB,I;MAAM,mB;QAAA,MAAe,E;MAAI,2B;QAAA,cAAwB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACvO,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,KAAF,IAAW,G;MACX,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;iFAwNX,yC;MAE4B,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACtG,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6FAwBX,iD;MAEkC,sB;QAAA,SA Ae,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGASX,mB;MAEuC,uB;QAAA,UAAoB,K;MACvD,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAYX,kC;MAE0C,uB;QAAA,UAAoB,K;MAAO,oB;QAAA,OAAiB,K;MAAO,uB;QAAA,UAAoB,K;MAC7G,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;wEAkEX,4B;MAE6D,iBAAY,KAAZ,C;K;wEAU7D,4B;MAEsE,iBAAY,KAAZ,C;K;wEAETe,2B;MAEW e,iBAAY,IAAZ,C;K;uGAsCxE,oH;MAEuC,yB;QAAA,YAA sB,K;MAAO,0B;QAAA,aAAuB,S;MAAW,6B;QAAA,gBAA0B,S;MAAW,uB;QAAA,UAAoB,K;MAAO,iC;QAAA,oBAA8B,S;MAAW,qC;QAAA,wBAAkC,S;MAAW,+B;QAAA,kBAAkC,S;MAC1R,QAAQ,E;MACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,mBAAF,IAAY,B,iB;MACzB,EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iBAAF,IAAuB,e;MACvB,OAAO,C;K;mGAgFX,oB;MAEqC,wB;QAAA,WAAqB,K;MACtD,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEA+MX,2B;MAEiE,iBAAY,IAAZ,C;K;2

GAKcJ,e,c;MAEyC,kB;QAAA,KAAgB,S;MACrD,QAAQ,E;MACR,EAAE,IAAF,IAAU,E;MACV,OAAO,C;K;2F  
AuMX,gB;MAGI,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;wEAgBX,4B;MAEiE,iBAAY,KA  
AZ,C;K;wEAEjE,oC;MAE4E,iBAAY,aAAZ,C;K;wEAuT5E,4B;MAEmE,iBAAY,KAAZ,C;K;uFA2CnE,sB;MAE  
+B,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAC9F,  
QAAQ,E;MACR,EAAE,GAFF,IAAS,C;MACT,EAAE,GAFF,IAAS,C;MACT,EAAE,GAFF,IAAS,C;MACT,EA  
AE,GAFF,IAAS,C;MACT,OAAO,C;K;qFA0CX,+B;MAE8B,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAA  
K,qB;QAAA,QAAiB,G;MAAK,sB;QAAA,SAAkB,G;MAcTg,QAAQ,E;MACR,EAAE,GAFF,IAAS,C;MACT,EA  
AE,GAFF,IAAS,C;MACT,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,OAAO,C;K;wEAOX,4B;  
MAEmE,iBAAY,KAAZ,C;K;yFAiHnE,oB;MAEgC,wB;QAAA,WAY2B+C,M;OAx2B3E,QAAQ,E;MACR,EAAE  
,UAAF,IAAgB,Q;MACHB,OAAO,C;K;6FAeX,+B;MAEKc,oB;QAAA,OAAgB,S;MAAW,mB;QAAA,MAAe,S;M  
AAW,wB;QAAA,Waq1BR,M;OAp1B3E,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,IAAW,G  
;MACX,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;6GAwCX,yD;MAE0C,qB;QAAA,QAAiB,E;MAAI,uB;QA  
AA,UAAoB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACp  
K,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EA  
E,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;yGAiCX,mC;MAEwC,qB;QAAA,QA2  
wByD,Q;OA3wBK,sB;QAAA,SA2wBL,Q;OA3wBoE,wB;QAAA,WA4vBtF,M;OA3vB3E,QAAQ,E;MACR,EAA  
E,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;2FAYX,2B;  
MAEiC,mB;QAAA,MAuwB0C,Q;OAvwBJ,0B;QAAA,aAAsB,S;MACzF,QAAQ,E;MACR,EAAE,KAAF,IAAW,  
G;MACX,EAAE,YAAF,IAAkB,U;MACIB,OAAO,C;K;+GAYX,0B;MAE2C,uB;QAAA,UAqvBgC,Q;OArvBU,q  
B;QAAA,QAqvBV,Q;OApvBvE,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,OA  
AO,C;K;wEAgCX,4B;MAE+D,iBAAY,KAAZ,C;K;qFAyaY,qB;MAAQ,OAAU,S;K;6FAEd,qB;MAAQ,OAAc,a;  
K;uFAEzB,qB;MAAQ,OAAW,U;K;iFASxB,qB;MAAQ,OAAQ,E;K;iFAEX,qB;MAAQ,OAAQ,O;K;uFAEb,qB;M  
AAQ,OAAW,U;K;uFAS3B,qB;MAAQ,OAAW,U;K;mFAErB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;MAAQ,OAAU  
,S;K;yFAShB,qB;MAAQ,OAAY,W;K;uFAErB,qB;MAAQ,OAAW,U;K;+FAEf,qB;MAAQ,OAAe,c;K;uFAE3B,q  
B;MAAQ,OAAW,U;K;uFAEnB,qB;MAAQ,OAAW,U;K;mFASrB,qB;MAAQ,OAAS,Q;K;iFAEIB,qB;MAAQ,OA  
AQ,O;K;6EAEIB,qB;MAAQ,OAAM,K;K;uFAET,qB;MAAQ,OAAW,U;K;qFASIB,qB;MAAQ,OAAU,S;K;qFAE  
IB,qB;MAAQ,OAAU,S;K;6EASR,qB;MAAQ,OAAM,K;K;mFAEX,qB;MAAQ,OAAS,Q;K;+EAEnB,qB;MAAQ,O  
AAO,M;K;+EAS/B,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mFAEf,qB;MAAQ,OAAS,Q;K;mFAS  
hB,qB;MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;mFASd,qB;MAAQ,  
OAAQ,O;K;+EAEIB,qB;MAAQ,OAAM,K;K;+EAEB,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mF  
AEf,qB;MAAQ,OAAS,Q;K;6EASd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,  
OAAS,Q;K;2FAEB,qB;MAAQ,OAAa,Y;K;6FAEpB,qB;MAAQ,OAAc,a;K;mFAE3B,qB;MAAQ,OAAS,Q;K;6EA  
S1B,qB;MAAQ,OAAM,K;K;6EAEEd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;+EASjB,qB;MAAQ,  
OAAO,M;K;mFAEb,qB;MAAQ,OAAS,Q;K;+EASrB,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;iFA  
SjB,qB;MAAQ,OAAO,M;K;6FAER,qB;MAAQ,OAAc,a;K;qFAEIB,qB;MAAQ,OAAU,S;K;iFASb,qB;MAAQ,O  
AAO,M;K;uFAEZ,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,OAAY,W;K;+EAE1B,qB;MAAQ,OAAM,K;K;qF  
AEX,qB;MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;+EASrB,qB;MAAQ,OAAO,M;K;6FAER,qB;MAA  
Q,OAAc,a;K;qFAS1B,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,OAAS,Q;K;+EASX,qB;MAAQ,OAAO,M;K;  
mFAEb,qB;MAAQ,OAAS,Q;K;iFASnB,qB;MAAQ,OAAO,M;K;qFAEZ,qB;MAAQ,OAAU,S;K;mFAEnB,qB;M  
AAQ,OAAS,Q;K;kFASj,qB;MAAQ,OAAQ,O;K;oFAEf,qB;MAAQ,OAAS,Q;K;8EAEpB,qB;MAAQ,OAAM,K;K  
;oFAEV,qB;MAAQ,OAAU,S;K;mFASzC,qB;MAAQ,OAAS,Q;K;mFAEjB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;M  
AAQ,OAAU,S;K;qFAEIB,qB;MAAQ,OAAU,S;K;wIEx+M7E,wM;MAEiD,qB;QAAA,QAakB,I;MAAM,sB;QAA  
A,SAAMb,I;MAAM,2B;QAAA,cAAwB,I;MAAM,yB;QAAA,YAAsB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;  
QAAA,aAAuB,I;MAAM,sB;QAAA,SAAMb,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,  
gC;QAAA,mBAA6B,I;MAAM,+B;QAAA,kBAA4B,I;MAAM,gC;QAAA,mBAA6B,I;MAAM,uB;QAAA,UAAoB  
,I;MAAM,4B;QAAA,eAAyB,I;MAAM,wB;QAAA,WAAqB,I;MAAM,uB;QAAA,UAAoB,I;MACrf,QAAQ,E;MA  
CR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,  
IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,QAAF,IAAc,M;MACd

,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iB  
AAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;  
MACpB,EAAE,UAAF,IAAgB,Q;MACHb,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;wHAsDX,wM;MAEyC,qB;Q  
AAA,QAAqB,S;MAAW,sB;QAAA,SAAsB,S;MAAW,2B;QAAA,cAA4B,S;MAAW,yB;QAAA,YAA0B,S;MAA  
W,0B;QAAA,aAA6B,S;MAAW,0B;QAAA,aAA6B,S;MAAW,sB;QAAA,SAAuB,S;MAAW,0B;QAAA,aAA0B,S;  
MAAW,0B;QAAA,aAA0B,S;MAAW,gC;QAAA,mBAAoC,S;MAAW,+B;QAAA,kBAAmC,S;MAAW,gC;QAAA  
,mBAAoC,S;MAAW,uB;QAAA,UAAwB,S;MAAW,4B;QAAA,eAA4B,S;MAAW,wB;QAAA,WAAoB,S;MAAW  
,uB;QAAA,UAAmB,S;MACtnB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,E  
AAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,I  
AAkB,U;MACIB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAAkB,U;MACIB  
,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,  
SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MACHb,EAAE,SAAF,IAAe,O;M  
ACf,OAAO,C;K;sHAYX,kN;MAEwC,wB;QAAA,WAA4C,S;MAAW,qB;QAAA,QAAiB,S;MAAW,sB;QAAA,S  
AAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;Q  
AAA,aAAsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,  
gC;QAAA,mBAA4B,S;MAAW,+B;QAAA,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAA  
mB,S;MAAW,4B;QAAA,eAAwB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MAC9IB,QA  
AQ,E;MACR,EAAE,UAAF,IAAgB,Q;MACHb,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAA  
E,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAA  
kB,U;MACIB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAAkB,U;MACIB,E  
AAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,S  
AAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MACHb,EAAE,SAAF,IAAe,O;MA  
Cf,OAAO,C;K;0HAsDX,wM;MAE0C,qB;QAAA,QAAiB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cA  
AuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,sB;QA  
AA,SAAkB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,gC;QAAA,mBAA4B,S;MAAW  
,+B;QAAA,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAAmB,S;MAAW,4B;QAAA,eAAw  
B,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MACziB,QAAQ,E;MACR,EAAE,OAAF,IAAa  
,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAA  
E,YAAF,IAAkB,U;MACIB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,  
U;MACIB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,  
EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,I  
AAGB,Q;MACHb,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;gHAYDX,wM;MAEqC,qB;QAAA,QAAc,S;MAAW,s  
B;QAAA,SAAc,S;MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MA  
AW,0B;QAAA,aAAsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAmB,S;MAAW,0B;QAAA,aAAmB  
,S;MAAW,gC;QAAA,mBAA6B,S;MAAW,+B;QAAA,kBAA4B,S;MAAW,gC;QAAA,mBAA6B,S;MAAW,uB;Q  
AAA,UAAmB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MA  
CxB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UA  
AF,IAAgB,Q;MACHb,OAAO,C;K;sIAoBX,gD;MAEgD,qB;QAAA,QAAiB,I;MAAM,uB;QAAA,UAAoB,K;MA  
AO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,  
EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHb,OAAO,C;K;wHA  
wCX,wB;MAEyC,qB;QAAA,QAAiB,K;MAAO,qB;QAAA,QAAiB,K;MAC9E,QAAQ,E;MACR,EAAE,OAAF,IA  
Aa,K;MACb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;kGAYBX,oB;MAE8B,mB;QAAA,MAAe,S;MAAW,mB;Q

AAA,MAAe,S;MACnE,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;oHAYX,kC;MAEuC,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,mB;QAAA,MAAe,S;MAAW,mB;QAAA,MAAe,S;MACpI,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EA AE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gGAYX,oB;MAE6B,mB;QAAA,MAAY ,S;MAAW,mB;QAAA,MAAY,S;MAC5D,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW, G;MACX,OAAO,C;K;kHAYX,kC;MAEsC,qB;QAAA,QAAc,S;MAAW,qB;QAAA,QAAc,S;MAAW,mB;QAAA, MAAY,S;MAAW,mB;QAAA,MAAY,S;MACvH,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,I A Aa,K;MACb,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gIAeX,wB;MAE6C,q B;QAAA,QAAkB,S;MAAW,qB;QAAA,QAAkB,S;MACxF,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAA E,OAAF,IAAa,K;MACb,OAAO,C;K;oIAeX,wB;MAE+C,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MA CxF,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;4FAKX,Y;MAGI, QAAQ,E;MACR,OAAO,C;K;oFAKX,Y;MAGI,QAAQ,E;MACR,OAAO,C;K;8FAKX,Y;MAGI,QAAQ,E;MACR, OAAO,C;K;K;GASX,oB;MAE8B,wB;QAAA,WAAkC,S;MAC5D,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAC hB,OAAO,C;K;4FAUmE,qB;MAAQ,OAAO,M;K;8FAEd,qB;MAAQ,OAAQ,O;K;4FASrB,qB;MAAQ,OAAO,M; K;0GAER,qB;MAAQ,OAAc,a;K;8FAE7B,qB;MAAQ,OAAO,M;K;gGAEd,qB;MAAQ,OAAQ,O;K;8FASjB,qB;M AAQ,OAAO,M;K;gHAEL,qB;MAAQ,OAAiB,gB;K;wGASrC,qB;MAAQ,OAAa,Y;K;0GAEPb,qB;MAAQ,OAAc ,a;K;wGAEvB,qB;MAAQ,OAAa,Y;K;oFCroB7F,4B;MAE6E,iBAAY,KAAZ,C;K;iGASnB,qB;MAAQ,OAAS,Q; K;6FAEnB,qB;MAAQ,OAAO,M;K;+FAEd,qB;MAAQ,OAAQ,O;K;iGASF,qB;MAAQ,OAAU,S;K;+FAEnB,qB; MAAQ,OAAS,Q;K;mGAS3B,qB;MAAQ,OAAW,U;K;mGAEnB,qB;MAAQ,OAAW,U;K;6GC1D/E,mb;MAEmC, yB;QAAA,YAAkB,C;MAAG,qB;QAAA,QAAiB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,wB;QAAA,WAAmB,G; MAAl,kC;QAAA,qBAA6B,G;MAAl,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc, C;MAAG,2B;QAAA,cAAuB,E;MAAl,yB;QAAA,YAAsB,K;MAAO,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UA AgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAA A,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,w B;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K ;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,g BAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO, 8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA Ae,C; MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACl/B,QAAQ,E;M ACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF, IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MAC b,EAAE,OAAF,IAAa,K;MACb,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,I AAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QA AF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,E AAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O ;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MACIB, EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF, IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB; MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF, IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GC1BX,0C;MAEwC,oB;QAAA,OAAiB,I;MAA M,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,uB;QAAA,UAAoB,K;MACpI,QAAQ,E;MACR,E AAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;M ACf,OAAO,C;K;4EAmIX,4B;MAEkE,iBAAY,KAAZ,C;K;4EAEIE,qC;MAE2E,UAAAY,KAAZ,IAAqB,O;K;4EAi BhG,4B;MAEuE,iBAAY,KAAZ,C;K;4EAEvE,qC;MAE+E,UAAAY,KAAZ,IAAqB,O;K;4EAiBpG,4B;MAEuE,iBA AY,KAAZ,C;K;4EAEvE,qC;MAE+E,UAAAY,KAAZ,IAAqB,O;K;4EAiGpG,4B;MAEoE,iBAAY,KAAZ,C;K;2EA EpE,qC;MAE4E,UAAAY,KAAZ,IAAqB,O;K;4EAKcJG,4B;MAE6E,iBAAY,KAAZ,C;K;4EAE7E,qC;MAEqF,UAA Y,KAAZ,IAAqB,O;K;4EAgPIG,4B;MAEqE,iBAAY,KAAZ,C;K;4EAErE,qC;MAE6E,UAAAY,KAAZ,IAAqB,O;K ;uFJ57BIG,+H;MAE8B,sB;QAAA,SAAkB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,oB;QAAA,OAAgB,S;MAA

W,wB;QAAA,WAAoB,S;MAAW,8B;QAAA,iBAA0B,S;MAAW,oB;QAAA,OAAqB,S;MAAW,2B;QAAA,cAAmC,S;MAAW,qB;QAAA,QAAuB,S;MAAW,wB;QAAA,WAA6B,S;MAAW,yB;QAAA,YAAqB,S;MAAW,yB;QAAA,YAAsB,S;MAAW,wB;QAAA,WAAe,S;MAC5Z,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,OAAF,IAAa,K;MACb,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,QAAF,IAAc,Q;MACd,OAAO,C;K;yFA0CX,uC;MAE+B,sB;QAAA,SAAiB,G;MAAK,0B;QAAA,aAAsB,I;MAAM,uB;QAAA,UAAmB,S;MACHG,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MACiB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;qFAUgD,qB;MAAQ,OAAQ,E;K;mFAEX,qB;MAAQ,OAAQ,O;K;iFAEjB,qB;MAAQ,OAAO,M;K;mFAEd,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;mFAEiB,qB;MAAQ,OAAQ,O;K;mFAEhB,qB;MAAQ,OAAQ,O;K;qFASF,qB;MAAQ,OAAG,E;K;yFAER,qB;MAAQ,OAAW,U;K;mFAEtB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,M;K;qFAEd,qB;MAAQ,OAAQ,O;K;yFAEb,qB;MAAQ,OAAW,U;K;mFAEtB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qFAEjB,qB;MAAQ,OAAS,Q;K;uFAEjB,qB;MAAQ,OAAS,Q;K;mGAEV,qB;MAAQ,OAAgB,e;K;iGAEzB,qB;MAAQ,OAAe,c;K;qFAE9B,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;yFASzB,qB;MAAQ,OAAW,U;K;+FAEhB,qB;MAAQ,OAAC,a;K;uFAEiB,qB;MAAQ,OAAU,S;K;iFAErB,qB;MAAQ,OAAO,M;K;iFASD,qB;MAAQ,OAAO,M;K;iGAER,qB;MAAQ,OAAC,a;K;uFAEiB,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,OAAU,S;K;yFAEjB,qB;MAAQ,OAAW,U;K;qFAErB,qB;MAAQ,OAAS,Q;K;yFAEf,qB;MAAQ,OAAW,U;K;+FAEhB,qB;MAAQ,OAAC,a;K;qGAEnB,qB;MAAQ,OAAiB,gB;K;qFAS3B,qB;MAAQ,OAAS,Q;K;mFAEiB,qB;MAAQ,OAAQ,O;K;uFAEf,qB;MAAQ,OAAS,Q;K;mFASxB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,M;K;yFAEZ,qB;MAAQ,OAAU,S;K;qFAEpB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qGAET,qB;MAAQ,OAAiB,gB;K;+FKnR/F,gB;MAEkC,oB;QAAA,OAAgB,E;MAC9C,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;+FAiBX,8B;MAEkC,4B;QAAA,eAAqB,S;MAAW,oB;QAAA,OAAgB,E;MAC9E,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;0EAUX,4B;MAE6D,iBAA Y,KAAZ,C;K;+GC6B7D,sJ;MAEsC,mB;QAAA,MA4GuD,M;OA5GG,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,E;MAAI,mB;QAAA,MAAe,E;MAAI,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OAAgB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,sB;QAAA,SAAmB,K;MAAO,oB;QAAA,OAAa,I;MAAM,uB;QAAA,UAAc,E;MAC/gB,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,IAAW,G;MACX,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,OAAF,IAAa,K;MACb,EA AE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,oBAAF,IAA0B,kB;MACiB,EAA E,QAAF,IAAc,M;MACd,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAWX,+B;M AEsE,oB;QAAA,OAAgB,S;MACiF,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MAC b,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;qHASX,e;MAEyC,mB;QAAA,MAAe,E;MACpD,QAAQ,E;MACR,E AAE,KAAF,IAAW,G;MACX,OAAO,C;K;mHAyBX,+D;MAEqE,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB ,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACrK,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y ;MACpB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACiB,EAAE,UA AF,IAAgB,Q;MACHB,OAAO,C;K;iGAUwE,qB;MAAQ,OAAU,S;K;6FAEnB,qB;MAAQ,OAAS,Q;K;+FAEhB,q B;MAAQ,OAAU,S;K;2FASvB,qB;MAAQ,OAAO,M;K;yFAEhB,qB;MAAQ,OAAM,K;K;yFAEd,qB;MAAQ,OA AM,K;K;yGCrj3F,uB;MAEsC,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,ORy9MW,S;OQx9MzE,QAAQ,E;MACR ,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;6HAuCX,mF;MAEgD,oB;QAAA,OAA a,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAa2C,S;MAAW,qB;QAAA, QAA6B,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/S,Q AAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,E AAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U; MACiB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;uGA2DX,qC;MAEqC,mC;QAAA,sBAAgC,K;MAAO,oB;

QAAA,OA4UD,Q;OA3UvE,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IAAY,I;MACZ,  
OAAO,C;K;yGAmBX,yC;MAEsC,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAq  
B,K;MACH,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAg  
B,Q;MACHB,OAAO,C;K;yGAsBX,2B;MAGI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe  
,O;MACf,OAAO,C;K;+FA8BX,sE;MAEoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QA  
AA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpL,QAAQ,E;MACR,EAAE,SA  
AF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,SAAF,IAAe,O;MA  
Cf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;6GAuBX,0D;MAE2D,sB;QAA  
A,SAAkB,M;MAAQ,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/J,  
QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,  
YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,C;K;2GAaX,qC;MAE4D,sB;QAAA,SAAkB,S;  
MAAW,uB;QAAA,UAA0B,S;MAC/G,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,QAAF,IAAc,M;  
MACd,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;uHAuCX,mF;MAE6C,oB;QAAA,OAAa,S;MAAW,sB;QAAA,S  
AAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAAmD,S;MAAW,qB;QAAA,QAA6B,S;MAAW,uB;Q  
AAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpT,QAAQ,E;MACR,EAAE,M  
AAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MA  
Cd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IA  
AgB,Q;MACHB,OAAO,C;K;qGA+BX,6D;MAEoC,4B;QAAA,eAAYB,K;MAAO,4B;QAAA,eAAYB,K;MAAO,0B  
;QAAA,aAAuB,K;MAAO,yB;QAAA,YAAqB,S;MACnJ,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAA  
E,cAAF,IAAoB,Y;MACpB,EAAE,YAAF,IAAkB,U;MACIB,EAAE,WAAF,IAAiB,S;MACjB,OAAO,C;K;yGAKB  
X,4C;MAEsC,oB;QAAA,OAAgB,S;MAAW,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;QA  
AA,UAA8B,S;MAC3J,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA  
F,IAAgB,Q;MACHB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+FAkCmE,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MA  
AQ,OAAy,W;K;+FAEnB,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MAAQ,OAAy,W;K;6FAEpB,qB;MAAQ,OAAy,  
W;K;6FAStC,qB;MAAQ,OAAy,W;K;6FAEpB,qB;MAAQ,OAAy,W;K;uFAEvB,qB;MAAQ,OAAS,Q;K;qFAEn  
B,qB;MAAQ,OAAO,M;K;uFASX,qB;MAAQ,OAAS,Q;K;yFAEjB,qB;MAAQ,OAAS,Q;K;qGAEX,qB;MAAQ,O  
AAe,c;K;iFAEhC,qB;MAAQ,OAAM,K;K;igCharE,0E;MAEoC,gC;QAAA,mBAA6B,K;MAAO,sB;QAAA,SAAk  
B,C;MAAG,qB;QAAA,QAAiB,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA  
,WAAqB,K;MAC3L,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,QAAF,IAAc,M;MACd,EAAE,  
OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MA  
ChB,OAAO,C;K;mFAU8E,qB;MAAQ,OAAG,E;K;+FAEL,qB;MAAQ,OAac,a;K;iFAE7B,qB;MAAQ,OAAO,M;  
K;yFAEX,qB;MAAQ,OAAW,U;K;+EAEvB,qB;MAAQ,OAAO,M;K;+EAEf,qB;MAAQ,OAAO,M;K;oErJlvG,yB  
;MAAA,kF;MAAA,0B;MAAA,uB;QAaI,IAAI,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAYB,  
wBAAqB,IAA9C,C;SAEV,OAAy,OAAL,IAAK,C;O;KAhBhB,C;0EAwCiC,qB;MAAQ,OAAA,SAAK,I;K;IsIpB  
V,6B;MAAC,qB;QAAA,8C;MAAA,kB;K;IACjC,2C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,yC;MAAA,4C;O;  
MAKI,0E;MAEA,sE;K;;IAFA,kD;MAAA,+B;MAAA,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAA  
A,yF;K;;IAAA,0C;MAAA,a;MAAA,S;UAAA,+C;aAAA,O;UAAA,6C;gBAAA,8D;;K;;IAyBmC,sC;MACnC,8B;K  
;;IAMqC,sC;MACrC,8B;K;;IC1DJ,iC;K;;ICMA,4B;K;;IA6BA,gD;K;;IC5BA,qC;K;;IA4BA,+B;K;;ICRqC,uC;MA  
CjC,uB;QAAA,UAAsB,E;MACtB,qB;QAAA,+C;MADA,sB;MACA,kB;K;IAEA,4C;MAAA,e;MAAA,iB;MAAA,  
uB;K;IAAA,0C;MAAA,6C;O;MAKI,4E;MAGA,wE;K;;IAHA,mD;MAAA,gC;MAAA,2C;K;;IAGA,iD;MAAA,gC  
;MAAA,yC;K;;IARJ,sC;MAAA,2F;K;;IAAA,2C;MAAA,a;MAAA,S;UAAA,gD;aAAA,O;UAAA,8C;gBAAA,+D;;  
K;;IAyByB,4B;MACzB,8B;K;;IC/C4C,8B;K;kDAI5C,mB;MAA6D,c;;QpJ2rD7C,Q;QADhB,IAAI,mCAAsB,cAA  
1B,C;UAAqC,aAAO,K;UAAP,e;SACrB,sB;QAAhB,OAAgB,cAAhB,C;UAAgB,2B;UAAM,IoJ3rD6C,OpJ2rD/B,  
SoJ3rD+B,UpJ2rD7C,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;MoJ5rDsD,iB;K;uDAE7D,oB;MACa,c;;Qp  
JmqDG,Q;QADhB,IAAI,coJlqDA,QpJkqDA,iBoJlqDA,QpJkqDsB,UAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,O  
oJnqDZ,QpJmqDY,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CoJnqDP,oBpJmqDkB,OoJnqDIB,Cp  
JmqDG,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MoJpqDH,iB;K;2CAEJ,Y;MAAkC,qBAAQ,C;K;IAEqB,q  
E;MAAA,qB;QAC3D,OAAI,OAAO,uBAAX,GAAiB,mBAAjB,GAA6C,SAAH,EAAG,C;O;K;4CADjD,Y;MAAk



C,4BAaA,IAAb,EAAmB,GAAnB,EAAwB,GAAXB,kBAA6B,wCAA7B,C;K;2CAIIC,Y;MAI4C,uBAAgB,IAAhB,C;K;mDAE5C,iB;MAI4D,yBAAgB,IAAhB,EAA5B,KAATB,C;K;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;MACA,0C;MACA,8C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IACA,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;MAAA,0B;K;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;MAAA,sH;K;;IAAA,6B;MAAA,a;aAAA,O;UAAA,gC;aAAA,U;UAAA,mC;aAAA,M;UAAA,+B;aAAA,Q;UAAA,iC;gBAAA,6D;K;;IAOA,4B;MAKI,mD;MACA,2BAA4B,I;K;yCAE5B,Y;MAEiB,IAAN,I;M3JUX,IAAI,E2JXQ,mD3JWR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;O2JZC,QAAM,oBAAN,M;aACH,M;UAAc,Y;UAAAd,K;aACA,O;UAAe,W;UAAf,K;gBACQ,wC;UAHL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACTB,mD;MAEA,OAAO,2F;K;4DAGX,Y;MACI,iD;MACA,kB;MACA,OAAO,kD;K;+CAeX,iB;MAII,2BAA,Y,K;MACZ,gD;K;sCAGJ,Y;MAII,+C;K;;ICjDkC,wB;MAoFtC,oC;MApFgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAwD,uB;;QtJkU3C,Q;QADb,YAA,Y,C;QACC,sB;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IsJnUmE,OtJmUrD,IsJnUqD,UtJmUnE,C;YACI,sBAAO,K;YAAP,wB;WACJ,qB;;QAEJ,sBAAO,E;;;MsJvUiD,0B;K;+CAExD,mB;MAA4D,sB;;QtJ2V5D,eAAoB,0BAAa,SAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI,IsJ7VsE,OtJ6VxD,QAAS,WsJ7V+C,UtJ6VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;;QAGR,qBAAO,E;;;MsJjWqD,yB;K;0CAE5D,Y;MAA+C,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,KAjB,C;K;6CAEzD,8B;MAA8D,gCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;IAEIC,wD;MAAgF,uB;MAA/E,kB;MAAmC,4B;MAC5D,eAAyB,C;MAGrB,+DAaKb,gBAAIB,EAA6B,OAA7B,EAA5C,WAAK,KAA3C,C;MACA,eAAa,UAAU,gBAAV,I;K;iDAGjB,iB;MACI,+DAaKb,KAAIB,EAAyB,YAAzB,C;MAEA,OAAO,wBAAK,mBAA,Y,KAAZ,IAAL,C;K;4FAGY,Y;MAAQ,mB;K;;oCAGnC,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAc,IAAd,EAAoB,KAApB,C;K;sCAGX,Y;MAG+B,oEAAgB,IAAhB,C;K;IAE/B,2C;MAAA,oB;MACI,eACsB,C;K;kDAEtB,Y;MAAkC,sBAAQ,gB;K;+CAE1C,Y;MAEe,gB;MADX,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;K;0DAGjB,Y;MAAsC,sBAAQ,C;K;wDAE9C,Y;MAAgC,mB;K;uDAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAC1B,OAAO,yBAAL,mCAAJ,EAAI,YAAJ,E;K;4DAGX,Y;MAAoC,sBAAQ,CAAR,I;K;;IAGxC,kC;MAAA,sC;K;iEACI,uB;MACI,IAAI,QAAQ,CAAR,IAAa,SAAS,IAA1B,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAAuB,IAAjD,C;Q;kEAIId,uB;MACI,IAAI,QAAQ,CAAR,IAAa,QAAQ,IAAzB,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAuB,IAAjD,C;Q;iEAIId,oC;MACI,IAAI,YAA,Y,CAAZ,IAAiB,UAAU,IAA/B,C;QACI,MAAM,8BAA0B,gBAAa,SAAb,mBAAkC,OAAIC,gBAAkD,IAA5E,C;OAEV,IAAI,YAA,Y,OAAhB,C;QACI,MAAM,gCAAYB,gBAAa,SAAb,oBAAmC,OAA5D,C;Q;kEAIId,sC;MACI,IAAI,aAAa,CAAb,IAAkB,WAAW,IAAjC,C;QACI,MAAM,8BAA0B,iBAAc,UAAAd,oBAAqC,QAArC,gBAA5D,IAAhF,C;OAEV,IAAI,aAAa,QAAjB,C;QACI,MAAM,gCAAYB,iBAAC,UAAAd,qBAA5C,QAA/D,C;Q;+DAId,a;MAEc,UACsB,M;MAFhC,iBA Ae,C;MACL,mB;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,aAAW,MAAK,UAAAL,SAAiB,6DAAiB,CAAIC,K;;MAEf,OAAO,U;K;6DAGX,oB;MAIiB,Q;MAHb,IAAI,CAAE,KAAF,KAAU,KAAM,KAApB,C;QAA0B,OAAO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAgB,aAAc,O;QAC9B,IAAI,cAAQ,SAAR,CAAJ,C;UACI,OAAO,K;MAGf,OAAO,I;K;;IAjDf,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;;ICnFwC,uB;MAyHxC,mC;MAzCA,uBAC6B,I;MAmC7B,yBACsC,I;K;8CAnHtC,e;MACI,OAAO,6BAAc,GAAd,S;K;gDAGX,iB;MAAwE,gBAAR,Y;MAAQ,c;QvJkrDxD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAp,e;SACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuJlrDwD,OvJkrD1C,OuJlrD6C,MAAH,QvJkrDxD,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;MuJnrDyD,iB;K;kDAEhE,iB;MAEI,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACTC,UAAU,KAAM,I;MAChB,YAA,Y,KAAM,M;MpKiNO,Q;MoKhNzB,epKgN4C,CAAnB,mDAAmB,YoKhNzB,GpKgNyB,C;MoK9M5C,IAAI,eAAS,QAAT,CAAJ,C;QACI,OAAO,K;OAIp,6B;MAAA,W;QpK0NqB,U;QoK1ND,UpK0NoB,CAAnB,uDAAmB,oBoK1NP,GpK0NO,C;OoK1N5C,W;QACI,OAAO,K;OAGX,OAAO,I;K;mCAIX,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAyB,OAAO,K;MACHC,IAAI,cAAQ,KAAM,KAAIB,C;QAAwB,OAAO,K;MAEV,gBAAAd,KAAM,Q;MAAQ,c;;QvJ6nDT,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAp,e;SACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CuJ7nDK,2BvJ6nDM,OuJ7nDN,CvJ6nDT,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MuJ9nDH,iB;K;sCAGJ,e;MAAwC,Q;MAAA,4CAAC,GAAd,8B;K;qCAGxC,Y;MAK+B,OAAQ,SAAR,YAAQ,C;K;oCAEvC,Y;MAAkC,qBAAQ,C;K;mFACnB,Y;MA

AQ,OAAA,YAAQ,K;K;IAWnB,0E;MAAA,wC;MAAS,sB;K;8EACb,mB;MAAsD,+CAAY,OAAZ,C;K;IAI3C,sG; MAAA,kD;K;8FACH,Y;MAAkC,OAAA,0BAAc,U;K;2FACHD,Y;MAAyB,OAAA,0BAAc,OAAO,I;K;;wEAJtD, Y;MACI,oBAAoB,6BAAQ,W;MAC5B,+F;K;sHAMmB,Y;MAAQ,OAAA,qBAAiB,K;K;;mFAB5D,Y;MACI,IAAI ,4BAAJ,C;QACI,+E;OAcJ,OAAO,mC;K;IAOwD,uD;MAAA,qB;QAAE,2CAAS,EAAT,C;O;K;qCAAzE,Y;MAAk C,OAAQ,eAAR,YAAQ,EAAa,IAAb,EAAmB,GAAAnB,EAAwB,GAAxB,kBAA6B,iCAA7B,C;K;+CAE1C,iB;MA AuD,+BAAS,KAAM,IAAf,IAAsB,GAAtB,GAA4B,wBAAS,KAAM,MAAf,C;K;+CAEnF,a;MAAwC,OAAI,MA AM,IAAV,GAAgB,YAAhB,GAAoC,SAAF,CAAE,C;K;IAWtD,4E;MAAA,wC;MAAS,6B;K;gFACf,mB;MAAsE, iDAAc,OAAc,C;K;IAI3D,wG;MAAA,kD;K;gGACH,Y;MAAkC,OAAA,0BAAc,U;K;6FACHD,Y;MAAyB,OAAA ,0BAAc,OAAO,M;K;;0EAJtD,Y;MACI,oBAAoB,6BAAQ,W;MAC5B,iG;K;wHAMmB,Y;MAAQ,OAAA,qBAAi B,K;K;;qFAB5D,Y;MACI,IAAI,8BAAJ,C;QACI,mF;OAcJ,OAAO,qC;K;oDAMf,e;MAA8D,gBAAR,Y;MAAQ,sB ;;QvJiJ9C,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuJjJsD,OvJiJxC,OuJjJ2C,IAAH,MvJiJtD, C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;MuJIJ+C,yB;K;IAEtD,iC;MAAA,qC;K;4DAEI,a;MAAiE,g C;MAAX,OAAU,CAAC,kBAAN,CAAM,0DAAmB,CAApB,KAA4B,oBAAjC,CAAiC,8DAAqB,CAAjD,C;K;4D AChE,a;MAAyD,OAAU,SAAL,CAAO,IAAF,mBAAL,CAAY,MAAP,C;K;0DACnE,oB;MACI,IAAI,gCAAJ,C;Q AA+B,OAAO,K;MACtC,OAAO,OAAA,CAAE,IAAF,EAAS,KAAM,IAAf,KAAAsB,OAAA,CAAE,MAAF,EAAW ,KAAM,MAAjB,C;K;;IANrC,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;;IChIqC,uB;MAkBrC,mC;MAIB+D,6B;K; mCAE/D,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B, OAAO,sDAAU,IAAV,EAAGB,KAAhB,C;K;qCAGX,Y;MAG+B,qEAakB,IAAI,B,C;K;IAE/B,iC;MAAA,qC;K;gE ACI,a;MAEoB,Q;MADhB,iBAAe,C;MACC,mB;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACC,U;QAAb,2BAAa ,yEAAuB,CAApC,K;;MAEJ,OAAO,U;K;wDAGX,oB;MACI,IAAI,CAAE,KAAF,KAAU,KAAM,KAAP,B,C;QAA 0B,OAAO,K;MACjC,OAAO,CtK4OsG,qBsK5OxF,KtK4OwF,C;K;;IsKvPrH,6C;MAAA,4C;QAAA,2B;OAAA,q C;K;;MCghBA,kC;MA9hBA,cAAwB,C;MACxB,yB;MAEA,sBAAYB,C;;kFAAZB,Y;MAAA,0B;K,OAAA,gB;M AAA,0B;K;4CA8BA,uB;MAOI,IAAI,cAAc,CAAIB,C;QAAqB,MAAM,6BAAsB,mBAAtB,C;MAC3B,IAAI,eAA e,kBAAY,OAA/B,C;QAAqC,M;MACrC,IAAI,uBAAGB,qDAAPB,C;QACI,qBAAc,gBAAYB,gBAAZ,WAAAY,EA Ac,EAAd,CAAzB,O;QACd,M;OAGJ,kBAakB,uDAAY,kBAAY,OAAxB,EAA8B,WAA9B,C;MACIB,oBAAa,W AAAb,C;K;0CAGJ,uB;MAII,kBAakB,gBAAmB,WAAAnB,O;M9J20BtB,U8J10BI,kB9J00BJ,E8J10ByB,W9J00BzB ,E8J10BsC,C9J00BtC,E8J10ByC,W9J00BzC,E8J10B+C,kBAAY,O9J00B3D,C;MAAA,U8Jz0BI,kB9Jy0BJ,E8Jz0 ByB,W9Jy0BzB,E8Jz0BsC,kBAAY,OAAZ,GAAmB,WAAAnB,I9Jy0BtC,E8Jz0B+D,C9Jy0B/D,E8Jz0BkE,W9Jy0 BIE,C;M8Jx0BI,cAAO,C;MACP,qBAAc,W;K;yCAGiB,yB;MAGW,Q;MAAP,OAAO,2BAAY,aAAZ,4D;K;yCAG X,iB;MAA2C,OAAI,SAAS,kBAAY,OAAzB,GAA+B,QAAQ,kBAAY,OAApB,IAA/B,GAA6D,K;K;yCAExG,iB; MAA2C,OAAI,QAAQ,CAAZ,GAAe,QAAQ,kBAAY,OAApB,IAAf,GAA6C,K;K;2CAExF,iB;MACoD,0BAAY,c AAO,KAAP,IAAZ,C;K;yCAEPd,iB;MAA2C,OAAI,UAAqB,cAAZ,kBAAY,CAAzB,GAAoC,CAApC,GAA2C,Q AAQ,CAAR,I;K;yCAEtF,iB;MAA2C,OAAI,UAAS,CAAb,GAA4B,cAAZ,kBAAY,CAA5B,GAA2C,QAAQ,CAA R,I;K;mCAEtF,Y;MAAkC,qBAAQ,C;K;iCAE1C,Y;MAGwB,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;; QAnBIC,Q;QAmBa,OAnBb,2BAmBkG,WAnBIG,4D;;K;uCAqBX,Y;MAG+B,Q;MAAA,IAAI,cAAJ,C;QAAA,O AAe,I;;QAxBnC,U;QAwBoB,OAxBpB,6BAwByD,WAxBzD,gE;;MAwBoB,W;K;gCAE/B,Y;MAGuB,IAAI,cAAJ ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;;QA7BjC,Q;QA6BY,OA7BZ,2BAQyC,mBAAY,cAqB0D,sBArB1D,IAA Z,CARzC,4D;;K;sCA+BX,Y;MAG8B,Q;MAAA,IAAI,cAAJ,C;QAAA,OAAe,I;;QAIcIC,U;QAKcMB,OAlCnB,6B AQyC,mBAAY,cA0BiB,sBA1BjB,IAAZ,CARzC,gE;;MAkCmB,W;K;0CAE9B,mB;MAII,sBAAe,YAAO,CAAP,I AAF,C;MAEA,cAAO,mBAAY,WAAZ,C;MACP,mBAAY,WAAZ,IAAoB,O;MACpB,wBAAQ,CAAR,I;K;yCAGJ ,mB;MAII,sBAAe,YAAO,CAAP,IAAf,C;MAEA,mBA7CgD,mBAAY,cA6CIC,SA7CkC,IAAZ,CA6ChD,IAAmC, O;MACnC,wBAAQ,CAAR,I;K;uCAGJ,Y;MAII,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;MA7Dd,Q;M A+DP,cA/DO,2BA+DmB,WA/DnB,4D;MAGeP,mBAAY,WAAZ,IAAoB,I;MACpB,cAAO,mBAAY,WAAZ,C;M ACP,wBAAQ,CAAR,I;MACA,OAAO,O;K;6CAGX,Y;MAGqC,OAAI,cAAJ,GAAe,IAAf,GAAyB,kB;K;sCAE9D, Y;MAII,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;MAErB,wBAzEgD,mBAAY,cAyEtB,sBAzEsB,IAAZ ,C;MARzC,Q;MAkFP,cAlFO,2BAkFmB,iBAlFnB,4D;MAmFP,mBAAY,iBAAZ,IAAiC,I;MACjC,wBAAQ,CAA R,I;MACA,OAAO,O;K;4CAGX,Y;MAGoC,OAAI,cAAJ,GAAe,IAAf,GAAyB,iB;K;qCAE7D,mB;MAEI,mBAAQ ,OAAAR,C;MACA,OAAO,I;K;uCAGX,0B;MACI,oCAAA,4BAAmB,KAAAnB,EAA0B,SA1B,C;MAEb,IAAI,UAA

S,SAAb,C;QACI,mBAAQ,OAAR,C;QACA,M;aACG,IAAI,UAAS,CAAb,C;QACH,oBAAS,OAAT,C;QACA,M;OAGJ,sBA Ae,YAAO,CAAP,IAAf,C;MA2BA,oBAjIgD,mBAAY,cAiI1B,KAjI0B,IAAZ,C;MAmIhD,IAAI,QAAS,SAAD,GAAQ,CAAR,IAAe,CAA3B,C;QAEI,+BAA+B,mBAAY,aAAZ,C;QAC/B,sBAAsB,mBAAY,WAAZ,C;QAEtB,IAAI,4BAA4B,WAAhC,C;UACI,mBAAY,eAAZ,IAA+B,mBAAY,WAAZ,C;U9JgrB3C,U8J/qBY,kB9J+qBZ,E8J/qBiC,kB9J+qBjC,E8J/qB8C,W9J+qB9C,E8J/qBoD,cAAO,CAAP,I9J+qBpD,E8J/qB8D,2BAA2B,CAA3B,I9J+qB9D,C;;UAAA,U8J7qBY,kB9J6qBZ,E8J7qBiC,kB9J6qBjC,E8J7qB8C,cAAO,CAAP,I9J6qB9C,E8J7qBwD,W9J6qBxD,E8J7qB8D,kBAAY,O9J6qB1E,C;U8J5qBY,mBAAY,kBAAY,OAAZ,GAAMB,CAAnB,IAAZ,IAAoC,mBAAY,CAAZ,C;U9J4qBhD,U8J3qBY,kB9J2qBZ,E8J3qBiC,kB9J2qBjC,E8J3qB8C,C9J2qB9C,E8J3qBiD,C9J2qBjD,E8J3qBoD,2BAA2B,CAA3B,I9J2qBpD,C;;Q8JxqBQ,mBAAY,wBAAZ,IAAwC,O;QACxC,cAAO,e;;QAGP,WArJ4C,mBAAY,cAqJ/B,SArJ+B,IAAZ,C;QAUJ5C,IAAI,gBAAGB,IAApB,C;U9JkqBR,U8JjqBY,kB9JjqBZ,E8JjqBiC,kB9JjqBjC,E8JjqB8C,gBAAGB,CAAhB,I9JjqB9C,E8JjqBiE,a9JjqBjE,E8JjqBgF,I9JjqBhF,C;;UAAA,U8J/pBY,kB9J+pBZ,E8J/pBiC,kB9J+pBjC,E8J/pB8C,C9J+pB9C,E8J/pBiD,C9J+pBjD,E8J/pBoD,I9J+pBpD,C;U8J9pBY,mBAAY,CAAZ,IAAiB,mBAAY,kBAAY,OAAZ,GAAMB,CAAnB,IAAZ,C;U9J8pB7B,U8J7pBY,kB9J6pBZ,E8J7pBiC,kB9J6pBjC,E8J7pB8C,gBAAGB,CAAhB,I9J6pB9C,E8J7pBiE,a9J6pBjE,E8J7pBgF,kBAAY,OAAZ,GAAMB,CAAnB,I9J6pBhF,C;;Q8J1pBQ,mBAAY,aAAZ,IAA6B,O;;MAEjC,wBAAQ,CAAR,I;K;oDAGJ,mC;MAGkD,UAlxB,M;MANtB,eAAe,QAAS,W;MAEsB,OAAZ,kBAAY,O;MAA9C,iBAAc,aAAd,wB;QACI,IAAI,CAAC,QAA S,UAAAd,C;UAAyB,K;QACzB,mBAAY,KAAZ,IAAqB,QAAS,O;;MAEZ,oB;MAAtB,mBAAC,CAAd,8B;QACI,IAAI,CAAC,QAA S,UAAAd,C;UAAyB,K;QACzB,mBAAY,OAAZ,IAAqB,QAAS,O;;MAGIC,wBAAQ,QAAS,KAAjB,I;K;OCAGJ,oB;MACI,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAC/B,sBA Ae,IAAK,KAAL,GAAY,QAAS,KAArB,IAAf,C;MACA,8BA tLgD,mBAAY,cAsLvB,SAtLuB,IAAZ,CAsLhD,EAA4C,QAA5C,C;MACA,OAAO,I;K;OCAGX,2B;MACI,oCAAa,4BAAMB,KAAnB,EAA0B,SAA1B,C;MAEb,IAAI,QAAS,UAAb,C;QACI,OAAO,K;aACJ,IAAI,UAAS,SAAb,C;QACH,OAAO,oBAAO,QAAP,C;OAGX,sBA Ae,IAAK,KAAL,GAAY,QAAS,KAArB,IAAf,C;MAEA,WArMgD,mBAAY,cAqMnC,SArMmC,IAAZ,C;MAsMhD,oBA tMgD,mBAAY,cAsM1B,KAtM0B,IAAZ,C;MAuMhD,mBAAMB,QAAS,K;MAE5B,IAAI,QAAS,SAAD,GAAQ,CAAR,IAAe,CAA3B,C;QAGI,kBA AkB,cAAO,YAAP,I;QAEIB,IAAI,iBAAiB,WAArB,C;UACI,IAAI,eAAe,CAAnB,C;Y9J0mBZ,U8JzmBgB,kB9JymBhB,E8JzmBqC,kB9JymBrC,E8JzmBkD,W9JymBID,E8JzmB+D,W9JymB/D,E8JzmBqE,a9JymBrE,C;;Y8JvmbgB,4BA Ae,kBAAY,OAA3B,I;YACA,sBAAsB,gBAAGB,WAAhB,I;YACtB,kBA AkB,kBAAY,OAAZ,GAAMB,WAAAnB,I;YAEIB,IAAI,eAAe,eAAnB,C;c9JmmBhB,U8Jlmbob,kB9JkmbpB,E8Jlmbyc,kB9JkmbzC,E8JlmbSD,W9JkmbtD,E8JlmbmE,W9JkmbnE,E8Jlmbye,a9Jkmbze,C;;cAAA,U8JhmBoB,kB9JgmBpB,E8JhmByC,kB9JgmBzC,E8JhmBsD,W9JgmBtD,E8JhmBmE,W9JgmBnE,E8JhmByE,cAAO,WAAP,I9JgmBzE,C;cAAA,U8J/lBoB,kB9J+lBpB,E8J/lByC,kB9J+lBzC,E8J/lBsD,C9J+lBtD,E8J/lByD,cAAO,WAAP,I9J+lBzD,E8J/lB6E,a9J+lB7E,C;;;UAAA,U8J3lBY,kB9J2lBZ,E8J3lBiC,kB9J2lBjC,E8J3lB8C,W9J2lB9C,E8J3lB2D,W9J2lB3D,E8J3lBiE,kBAAY,O9J2lB7E,C;U8J1lBY,IAAI,gBAAGB,aAApB,C;Y9J0lBZ,U8JzlBgB,kB9JylBhB,E8JzlBqC,kB9JylBrC,E8JzlBkD,kBAAY,OAAZ,GAAMB,YAAnB,I9JylBID,E8JzlBmF,C9JylBnF,E8JzlBsF,a9JylBtF,C;;YAAA,U8JvlBgB,kB9JulBhB,E8JvlBqC,kB9JulBrC,E8JvlBkD,kBAAY,OAAZ,GAAMB,YAAnB,I9JulBID,E8JvlBmF,C9JulBnF,E8JvlBsF,Y9JulBtF,C;YAAA,U8JtlBgB,kB9JslBhB,E8JtlBqC,kB9JslBrC,E8JtlBkD,C9JslBID,E8JtlBqD,Y9JslBrD,E8JtlBmE,a9JslBnE,C;;;Q8JnlBQ,cAAO,W;QACP,8BA AuB,mBAAY,gBAAGB,YAAhB,IAAZ,CAA vB,EAAkE,QAAIE,C;;QAIA,2BAA2B,gBAAGB,YAAhB,I;QAE3B,IAAI,gBAAGB,IAApB,C;UACI,IAAI,QAAO,YAAP,SA AuB,kBAAY,OAAvC,C;Y9J2kBZ,U8J1kBGB,kB9J0kBhB,E8J1kBqC,kB9J0kBrC,E8J1kBkD,oB9J0kBid,E8J1kBwE,a9J0kBxE,E8J1kBuF,I9J0kBvF,C;;Y8JxkBGB,IAAI,wBA AwB,kBAAY,OAAx C,C;c9JwkBhB,U8JvkBoB,kB9JukBpB,E8JvkByC,kB9JukBzC,E8JvkBsD,uBA AuB,kBAAY,OAA nC,I9JukBtD,E8JvkB+F,a9JukB/F,E8JvkB8G,I9JukB9G,C;;c8JrkBoB,mBAAMB,OAAO,YAAP,GAAsB,kBAAY,OAAIC,I;c9JqkBvC,U8JpkBoB,kB9JokBpB,E8JpkByC,kB9JokBzC,E8JpkBsD,C9JokBtD,E8JpkByD,OAAO,YAAP,I9JokBzD,E8JpkB8E,I9JokB9E,C;cAAA,U8JnkBoB,kB9JmkBpB,E8JnkByC,kB9JmkBzC,E8JnkBsD,oB9JmkBtD,E8JnkB4E,a9JmkB5E,E8JnkB2F,OAAO,YAAP,I9JmkB3F,C;;;UAAA,U8J/jBY,kB9J+jBZ,E8J/jBiC,kB9J+jBjC,E8J/jB8C,Y9J+jB9C,E8J/jB4D,C9J+jB5D,E8J/jB+D,I9J+jB/D,C;U8J9jBY,IAAI,wBA AwB,kBAAY,OAAx C,C;Y9J8jBZ,U8J7jBgB,kB9J6jBhB,E8J7jBqC,kB9J6jBrC,E8J7jBkD,uBA AuB,kBAAY,OAA nC,I9J6jBID,E8J7jB2F,a9J6jB3F,E8J7jB0G,kBAAY,O9J6jBtH,C;;YAAA,U8J3jBgB,kB9J2jBhB,E8J3jBqC,kB9J2jBrC,E8J3jBkD,C9J2jBID,E8J3jBqD,kBAAY,OAAZ,GAAMB,YAAnB,I9J2jBrD,E8J

3jBsF,kBAAY,O9J2jBiG,C;YAAA,U8J1jBgB,kB9J0jBhB,E8J1jBqC,kB9J0jBrC,E8J1jBkD,oB9J0jBiD,E8J1jBwE ,a9J0jBxE,E8J1jBuF,kBAAY,OAAZ,GAAMb,YAAAnB,I9J0jBvF,C,;;Q8JvjBQ,8BAAuB,AAAvB,EAAsC,QAAtC, C,;MAGJ,OAAO,I;K;uCAGX,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAYB,SAAZB,C;MAjRN,Q;MAMRP,OAnR O,2BAQyC,mBAAY,cA2Q3B,KA3Q2B,IAAZ,CARzC,4D;K;uCAAsRX,0B;MACI,oCAAA,2BAAkB,KAAIB,EAAY B,SAAZB,C;MAEb,oBAjRgD,mBAAY,cAiR1B,KAjR0B,IAAZ,C;MARzC,Q;MAORP,iBA1RO,2BA0RsB,aA1Rt B,4D;MA2RP,mBAAY,aAAZ,IAA6B,O;MAE7B,OAAO,U;K;0CAGX,mB;MAAoD,0BAAQ,OAAR,MAAoB,E;K ;yCAExE,mB;MAIsB,IAIA,IAJA,EAIuB,M;MAPzC,WA3RgD,mBAAY,cA2RnC,SA3RmC,IAAZ,C;MA6RhD,IA AI,cAAO,IAAX,C;QACI,iBAAc,WAAAd,UAAyB,IAAZB,U;UACI,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C ;YAAmC,OAAO,QAAQ,WAAR,I,;aAE3C,IAAI,eAAQ,IAAZ,C;QACW,kB;QAAuB,SAAZ,kBAAY,O;QAARc,q D;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,WAAR,I,;QAE9C,mBAAc,CA Ad,YAAsB,IAAtB,Y;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,kBAAY,OA ApB,GAA2B,WAA3B,I,;OAIID,OAAO,E;K;6CAGX,mB;MAIsC,UAOJ,MAPI,EA0a,M;MAV/C,WA9SgD,mBA AY,cA8SnC,SA9SmC,IAAZ,C;MAgThD,IAAI,cAAO,IAAX,C;QACkC,kB;QAA9B,iBAAc,OAAO,CAAP,IAAd,y B;UACI,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C;YAAmC,OAAO,QAAQ,WAAR,I,;aAE3C,IAAI,cAAO,I AAX,C;QACH,mBAAc,OAAO,CAAP,IAAd,aAA8B,CAA9B,Y;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CA AJ,C;YAAmC,OAAO,UAAQ,kBAAY,OAAPB,GAA2B,WAA3B,I,;QAEpB,uBAAZ,kBAAY,C;QAAiB,oB;QAA 3C,wD;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,WAAR,I,;OAIID,OAAO,E ;K;wCAGX,mB;MACI,YAAAY,mBAAQ,OAAR,C;MACZ,IAAI,UAAS,EAAb,C;QAAiB,OAAO,K;MACxB,sBAA S,KAAT,C;MACA,OAAO,I;K;4CAGX,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAYB,SAAZB,C;MAEb,IAAI,UAA S,sBAAb,C;QACI,OAAO,iB;aACJ,IAAI,UAAS,CAAb,C;QACH,OAAO,kB;OAGX,oBAhVgD,mBAAY,cAgV1B, KAhV0B,IAAZ,C;MARzC,Q;MAyVP,cAzVO,2BAyVmB,aAzVnB,4D;MA2VP,IAAI,QAAQ,aAAS,CAARb,C;Q AEI,IAAI,iBAAiB,WAARb,C;U9JoeR,U8JneY,kB9JmeZ,E8JneiC,kB9JmeJ,C,E8Jne8C,cAAO,CAAP,I9Jme9C,E8J newD,W9JmexD,E8Jne8D,a9Jme9D,C,;UAAA,U8JjeY,kB9JjeZ,E8JjeiC,kB9JjeJ,C,E8Jje8C,C9Jje9C,E8JjeiD,C9Ji ejD,E8JjeoD,a9JjepD,C;U8JheY,mBAAY,CAAZ,IAAiB,mBAAY,kBAAY,OAAZ,GAAMb,CAAnB,IAAZ,C;U9Jg e7B,U8J/dY,kB9J+dZ,E8J/diC,kB9J+djC,E8J/d8C,cAAO,CAAP,I9J+d9C,E8J/dwD,W9J+dxD,E8J/d8D,kBAAY,O AAZ,GAAMb,CAAnB,I9J+d9D,C,;Q8J5dQ,mBAAY,WAAZ,IAAoB,I;QACpB,cAAO,mBAAY,WAAZ,C,;QAGP ,wBAjW4C,mBAAY,cAiWIB,sBAjWkB,IAAZ,C;QAmW5C,IAAI,iBAAiB,iBAARb,C;U9JsdR,U8JrdY,kB9JqdZ, E8JrdiC,kB9JqdjC,E8Jrd8C,a9Jqd9C,E8Jrd6D,gBAAgB,CAAhB,I9Jqd7D,E8JrdgF,oBAAoB,CAAPB,I9JqdhF,C,; UAAA,U8JndY,kB9JmdZ,E8JndiC,kB9JmdjC,E8Jnd8C,a9Jmd9C,E8Jnd6D,gBAAgB,CAAhB,I9Jmd7D,E8JndgF, kBAAY,O9Jmd5F,C;U8JldY,mBAAY,kBAAY,OAAZ,GAAMb,CAAnB,IAAZ,IAAoC,mBAAY,CAAZ,C;U9Jkdh D,U8JjdY,kB9JjdZ,E8JjdiC,kB9JjdjC,E8Jjd8C,C9Jjd9C,E8JjdiD,C9JjdiD,E8JjdoD,oBAAoB,CAAPB,I9JjdpD,C,; Q8J9cQ,mBAAY,iBAAZ,IAAiC,I,;MAErC,wBAAQ,CAAR,I;MAEA,OAAO,O;K;6CAGX,oB;MAAkE,0B,;Qaa5 C,wD;QART,aAAL,IAAK,U;QAAL,Y;UAA8B,SAAZ,kB7K6wOnB,YAAQ,C;S6K7wOX,W;UACI,yBAAO,K;U AAP,2B;SAEJ,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2XhD,cAAc,W;QACd,eAAe,K;QAEf,IAAI,cA AO,IAAX,C;UACI,iBAAc,WAAAd,UAAyB,IAAZB,U;YACI,cAAc,mBAAY,KAAZ,C;YAGd,IAjBsE,CAAU,wBAi BIE,0EAjBkE,CAiBhF,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O,;cAEzB,WAAW,I,;UAGP,OAAZ,kB AAY,EAAC,IAAL,EAAW,OAAX,EAAoB,IAApB,C,;UAGE,oB;UAAuB,SAAZ,kBAAY,O;UAArC,uD;YACI,gB AAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA/BsE,CAAU,wBA+BIE,kFA/BkE,CA+BhF,C; cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S,;cAEzB,WAAW,I,;UAGnB,UAAU,mBAAY,OAAZ,C;UAEV, mBAAc,CAAd,YAAsB,IAAtB,Y;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA5 CsE,CAAU,wBA4CIE,kFA5CkE,CA4ChF,C;cACI,mBAAY,OAAZ,IAAuB,S;cAcvB,UAAU,mBAAY,OAAZ,C,; cAEV,WAAW,I,;QAIvB,IAAI,QAAJ,C;UACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;QAEX,yBAAO,Q,;MA vDuD,6B;K;6CAEIE,oB;MAAkE,0B,;QAW5C,wD;QART,aAAL,IAAK,U;QAAL,Y;UAA8B,SAAZ,kB7K6wOnB ,YAAQ,C;S6K7wOX,W;UACI,yBAAO,K;UAAp,2B;SAEJ,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2 XhD,cAAc,W;QACd,eAAe,K;QAEf,IAAI,cAAO,IAAX,C;UACI,iBAAc,WAAAd,UAAyB,IAAZB,U;YACI,cAAc,m BAAY,KAAZ,C;YAGd,IAf+E,wBAejE,0EAfiE,CAe/E,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O,;cA EzB,WAAW,I,;UAGP,OAAZ,kBAAY,EAAC,IAAL,EAAW,OAAX,EAAoB,IAApB,C,;UAGE,oB;UAAuB,SAAZ ,kBAAY,O;UAArC,uD;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA7B+E,wBA

6BjE,kFA7BiE,CA6B/E,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;cAEzB,WAAW,I;;UAGnB,UAAU,  
mBAAY,OAAZ,C;UAEV,mBAAC,CAAd,YAAsB,IAAtB,Y;YACI,gBAAC,mBAAY,OAAZ,C;YACd,mBAAY,OA  
AZ,IAAqB,I;YAGrB,IA1C+E,wBA0CjE,kFA1CiE,CA0C/E,C;cACI,mBAAY,OAAZ,IAAuB,S;cACvB,UAAU,mB  
AAY,OAAZ,C;;cAEV,WAAW,I;;;QAIvB,IAAI,QAAJ,C;UACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;QAEX,  
yBAAO,Q;;MArDuD,6B;K;2CAEIE,qB;MASsB,IAII,IAJJ,EAKM,MALN,EAaA,MAbA,EAuB,MAbvB,EAKBI,  
MAIBJ,EAmBM,MANBN,EA+BI,M;MAvCb,aAAL,IAAK,U;MAAL,Y;QAA8B,SAAZ,kB7K6wOnB,YAAQ,C;O  
6K7wOX,W;QACI,OAAO,K;MAEX,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;MA2XhD,cAAc,W;MACd,e  
AAe,K;MAEf,IAAI,cAAO,IAAX,C;QACI,iBAAC,WAAAd,UAAyB,IAAzB,U;UACI,cAAc,mBAAY,KAAZ,C;UAG  
d,IAAI,UAAU,0EAAV,CAAJ,C;YACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;YAEzB,WAAW,I;;QAGP,O  
AAZ,kBAAY,EAAK,IAAL,EAAW,OAAZ,EAAoB,IAApB,C;;QAGE,oB;QAAuB,SAAZ,kBAAY,O;QAARc,uD;  
UACI,gBAAC,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,  
mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;YAEzB,WAAW,I;;QAGnB,UAAU,mBAAY,OAAZ,C;QAEV,mBA  
Ac,CAAd,YAAsB,IAAtB,Y;UACI,gBAAC,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAAI,UA  
AU,kFAAV,CAAJ,C;YACI,mBAAY,OAAZ,IAAuB,S;YACvB,UAAU,mBAAY,OAAZ,C;;YAEV,WAAW,I;;;M  
AIvB,IAAI,QAAJ,C;QACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;MAEX,OAAO,Q;K;iCAGX,Y;MACI,WA7a  
gD,mBAAY,cA6anC,SA7amC,IAAZ,C;MA8ahD,IAAI,cAAO,IAAX,C;QACgB,OAAZ,kBAAY,EAAK,IAAL,EA  
AW,WAAW,EAAiB,IAAjB,C;;QACT,IvKtS6C,CAAC,cuKsS9C,C;UACS,OAAZ,kBAAY,EAAK,IAAL,EAAW,  
WAAW,EAAiB,kBAAY,OAA7B,C;UACA,OAAZ,kBAAY,EAAK,IAAL,EAAW,CAAX,EAAC,IAAd,C;;MAEhB,  
cAAO,C;MACP,YAAO,C;K;2CAGX,iB;MAGe,IAAC,IAAD,EAcJ,M;MAfP,WACW,eAAC,OAAI,KAAM,OAA  
N,IAAc,SAAlB,GAawB,KAAxB,GAAMc,aAAa,KAAb,EAAoB,SAApB,CAApC,uB;MAEX,WA7bgD,mBAAY,  
cA6bnC,SA7bmC,IAAZ,C;MA8bhD,IAAI,cAAO,IAAX,C;Q9J2XJ,U8J1XQ,kB9J0XR,E8J1X6B,I9J0X7B,EAD+F  
,CAC/F,E8J1XgD,W9J0XhD,E8J1XiE,I9J0XjE,C;;Q8JzXW,IvKtT6C,CAAC,cuKsT9C,C;U9JyXX,U8JxXQ,kB9J  
wXR,E8JxX6B,I9JwX7B,E8JxXuD,C9JwXvD,E8JxXuE,W9JwXvE,E8JxXwF,kBAAY,O9JwXpG,C;UAAA,U8Jv  
XQ,kB9JuXR,E8JvX6B,I9JuX7B,E8JvXuD,kBAAY,OAAZ,GAAMb,WAAAnB,I9JuXvD,E8JvX6F,C9JuX7F,E8Jv  
X2G,I9JuX3G,C;;M8JrXI,IAAI,IAAK,OAAL,GAAY,SAAhB,C;QACI,KAAK,SAAL,IAAa,I;OAIjB,OAAO,qD;K;  
mCAGX,Y;MAEI,OAAO,qBAAQ,gBAAMb,SAAnB,OAAR,C;K;+CAGX,iB;MAC0D,4BAAQ,KAAR,C;K;+CA  
C1D,Y;MAA0C,qB;K;IAE1C,gC;MAAA,oC;MACI,0BpHriBuC,E;MoHsiBvC,sBAAiC,U;MACjC,4BAAuC,E;K;  
yDAEvC,oC;MAEI,kBAAkB,eAAe,eAAgB,CAA/B,K;MACIB,IAAI,eAAc,WAAAd,QAA4B,CAAhC,C;QACI,cAA  
c,W;MACIB,IAAI,eAAc,UAAAd,QAA6B,CAAJ,C;QACI,cAAkB,cAAc,UAAIB,GAAGC,UAAhC,GAAMd,U;MA  
CrE,OAAO,W;K;;IAZf,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;qDAgBA,qB;MAEI,WAVEGD,mBAAY,cAuenC,S  
AvemC,IAAZ,C;MAwehD,WAAe,kBAAa,cAAO,IAAxB,GAA8B,WAA9B,GAAwC,cAAO,kBAAY,OAAAnB,I;M  
ACnD,UAAU,IAAV,EAAGB,cAAhB,C;K;;IA5iBJ,iD;MAAA,oD;MAGwC,+B;MAPB5C,sB;MAqBsB,Q;MACV,  
wBAAMb,CAAnB,C;QAAwB,4D;WACxB,sBAAkB,CAAIb,C;QAAuB,uBAAa,eAAb,O;;QACf,MAAM,gCAAY  
B,uBAAoB,eAA7C,C;MAHIB,0B;MAJJ,Y;K;IAWA,kC;MAAA,oD;MAGoB,+B;MA/BxB,sB;MAGCQ,sBAAC,qD  
;MAJIB,Y;K;IAOA,4C;MAAA,oD;MAG2C,+B;MATC/C,sB;MAuQC,sBxJrB8D,YwJqBhD,QxJrBgD,C;MwJsB9D  
,aAAO,mBAAY,O;MACnB,IAAI,mB7K+qPD,YAAQ,C6K/qPX,C;QAA2B,sBAAC,qD;MAN7C,Y;K;IC5BJ,4B;M  
AMoB,Q;M9KghqBA,U;MADhB,UAAe,C;MACf,uD;QAAgB,cAAhB,iB;QACI,YAAgB,O8KlhqBiB,O9KkhqBjC  
,I;;M8KlhqBJ,aAAa,iB9KohqBN,G8KphqBM,C;MACb,wBAAGB,SAAhB,gB;QAAgB,gBAAA,SAAhB,M;QAC  
W,SAAP,MAAO,EAAO,SAAP,C;;MAEX,OAAO,M;K;IAGX,0B;MASiB,Q;MAFb,YAAy,iBAAa,gBAAb,C;MA  
CZ,YAAy,iBAAa,gBAAb,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,KAAM,WAAI,IAAK,MA  
AT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;gGAGX,qB;MAWW,4B;MAAA,  
U;QAAqB,OAAL,S9K0qPhB,YAAQ,C;O8K1qPf,W;K;oFAGJ,mC;MAUI,O9K6pPO,qBAAQ,C8K7pPf,GAAe,cA  
Af,GAAMC,S;K;IAGvC,iD;MAMI,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,qBAAGB,aAAhB,IAAi  
C,SAAK,OAAL,KAAa,KAAM,OAAxD,C;QAA8D,OAAO,K;MAErE,4C;QACI,SAAS,UAAK,CAAL,C;QACT,S  
AAS,MAAM,CAAN,C;QAET,IAAI,OAAO,EAAX,C;UACI,Q;eACG,IAAI,cAAc,UAAIB,C;UACH,OAAO,K;SAI  
P,0BAAAs,kBAAtB,C;UAA4C,IAAI,CAAI,kBAAH,EAAG,EAAB,EAIB,CAAR,C;YAA+B,OAAO,K;eACIF,8  
BAAAs,sBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAD,CAAR,C;YAA2B,OAAO,K;eAC9E,+BAAsB  
,uBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAD,CAAR,C;YAA2B,OAAO,K;eAC9E,6BAAsB,qBAAt

B,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,8BAAsB,sBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,+BAAsB,uBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,gCAAsB,wBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,8BAAsB,sBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,iCAAsB,yBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAE9E,qCAAsB,6BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,sCAAsB,8BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,oCAAsB,4BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,qCAAsB,6BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAC,EAAd,CAAR,C;YAA2B,OAAO,K;eAEtE,IAAI,YAAM,EAAN,CAAJ,C;UAAc,OAAO,K;MAIrc,OAAO,I;K;IAGX,4C;MAKI,IAAI,iBAAJ,C;QAAkB,OAAO,M;MACzB,aAAa,CAAK,eAAL,gBAAK,EAAa,SAAb,CAAL,GAA6C,CAA7C,QAAiD,CAAjD,I;MvC6SkB,kBAAxB,mBuC5SY,MvC4SZ,C;MuC3SH,oDxK5BgD,gBwK4BhD,C;MADJ,O7JnC O,WsH+U6C,W;K;IuCvSxD,mE;MAEI,IAAY,SAAR,0BAAJ,C;QACI,MAAO,gBAAO,OAAP,C;QACP,M;OAEJ,SAAU,WAAI,SAAJ,C;MACV,MAAO,gBAAO,EAAP,C;MAEP,4C;QACI,IAAI,MAAK,CAAT,C;UACI,MAAO,gBAAO,IAAP,C;SAEX,cAAc,UAAK,CAAL,C;QAEV,IADE,OACF,S;UAAmB,MAAO,gBAAO,MAAP,C;aAC1B,mBAFE,OAEF,E;UAA2B,4BAAR,OAAQ,EAA4B,MAA5B,EAAoC,SAAP,C;aAC3B,uBAHE,OAGF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,wBAJE,OAI,F,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,sBALE,OAKF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,uBANE,OAMF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,wBAPE,OAO,F,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,yBARE,OAQF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,uBATE,OASF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAC1B,0BAVE,OAUF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAF,C;aAE1B,kBAZE,OAYF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAF,C;aAC1B,kBAbE,OAAf,e;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAF,C;aAC1B,kBAde,OAcF,a;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAF,C;aAC1B,kBAfE,OAEf,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAF,C;UAEP,MAAO,gBAAO,OA AQ,WAAf,C;MAIIC,MAAO,gBAAO,EAAP,C;MACP,SAAU,kBAAmB,iBAAV,SAAU,CAAnB,C;K;ICpJd,uC;MAIqD,+CAAwC,iBAAO,CAA/C,IAAoD,mC;K;IAEZg,4D;MAWQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAEQ,yCAAwB,MAAO,KAAP,GAAc,CAAT,C;UAJZ,OAIuD,S;UAJvD,OAK6B,mBAAL,SAAK,CAAT,GAA+B,sBAA/B,GAAgD,S;;QALpE,OAoGB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,gD;MAWQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAFJ,OAE8B,mBAAL,SAAK,CAAT,GAA+B,sBAA/B,GAAgD,S;;QAFrE,OAoGB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,kD;MAKI,OAAI,oCAAJ,GAA0C,sBAA1C,GAA2D,oB;K;IAE/D,kD;MAKI,OAAI,oCAAJ,GAA0C,oBAA1C,GAA2D,iB;K;IzKnD/D,yB;MAAA,6B;K;sCACI,Y;MAAkC,Y;K;0CACIC,Y;MAAsC,Y;K;wCACtC,Y;MAAgC,Q;K;4CACChC,Y;MAAoC,S;K;mCACpC,Y;MAA+B,MAAM,6B;K;uCACrC,Y;MAAmC,MAAM,6B;K;;IAN7C,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;IASA,qB;MAAA,yB;MACI,+C;K;iCAEA,iB;MAA4C,qCAAoB,KAAM,U;K;mCACtE,Y;MAA+B,Q;K;mCAC/B,Y;MAAkC,W;K;iFAEX,Y;MAAQ,Q;K;kCAC/B,Y;MAAkC,W;K;yCACIC,mB;MAAmD,Y;K;8CACnD,oB;MAAmE,OAAA,QAAS,U;K;sCAE5E,iB;MAAwC,MAAM,8BAA0B,iDAA8C,KAA9C,MAA1B,C;K;wCAC9C,mB;MAA8C,S;K;4CAC9C,mB;MAAkD,S;K;mCAEID,Y;MAA6C,kC;K;uCAC7C,Y;MAAqD,kC;K;+CACrD,iB;MACI,IAAI,UAAAS,CAAb,C;QAAgB,MAAM,8BAA0B,YAAS,KAAnC,C;MACtB,OAAO,2B;K;0CAGX,8B;MACI,IAAI,cAAa,CAAb,IAAkB,YAAW,CAAjC,C;QAAoC,OAAO,I;MAC3C,MAAM,8BAA0B,gBAAa,SAAb,mBAAkC,OAA5D,C;K;wCAGV,Y;MAAiC,8B;K;;IA5BrC,iC;MAAA,gC;QAAA,e;OAAA,yB;K;IA+BA,iC;MAA8D,6BAAkB,SAAlB,EAAoC,KAApC,C;K;IAE5B,8C;MAAC,oB;MAA0B,0B;K;yFACIC,Y;MAAQ,OAAA,WAAO,O;K;0CACtC,Y;MAAkC,OAAA,WnqqP3B,YAAQ,C;K;iDMppPf,mB;MAA6C,OAAO,SAAP,WAAO,EAAS,OAAT,C;K;sDACpD,oB;MAAsE,c;;Qc4nDtD,Q;QADhB,IAAI,cd3nDyD,Qc2nDzD,iBd3nDyD,Qc2nDnC,UAA1B,C;UAAqC,aAAO,I;UAAp,e;SACrB,Od5nD6C,Qc4nD7C,W;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,IAAI,Cd5nDkD,oBc4nDvC,Od5nDuC,Cc4nDtD,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;Md7nDsD,iB;K;2CAC7D,Y;MAAuC,OAAO,qBAAP,WAAO,C;K;0CAC9C,Y;MAC+C,gBAAP,W;MAAA,OAAwB,cAAxB,GegKpC,SfhKoC,GegKpC,SN83BoB,Q;K;;IT7hC5B,qB;MAIsC,8B;K;IAEtC,4B;MAIqD,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAgC,OAAT,QAAS,CAAhC,GAA8C,W;K;mFAEnG,yB;MAAA,qD;MAAA,mB;QAK0C,kB;O;KAL1C,C;+FAOA,y

B;MAAA,+D;MAAA,mB;QAMwD,uB;O;KANxD,C;2FAQA,yB;MAAA,+D;MAAA,mB;QAMoD,uB;O;KANpD, C;IAQA,mC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gBAAXB,GAAyC,iBAAU,sBAAkB,QAAlB,E AAwC,IAAxC,CAAV,C;K;IAE7C,iC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gBAAXB,GAAyC,iB AAU,sBAAkB,QAAlB,EAAwC,IAAxC,CAAV,C;K;IAE7C,gC;MAI2D,OAAI,eAAJ,GAAqB,OAAO,OAAP,CAA rB,GAA0C,W;K;IAErG,mC;MAImE,OAAS,cAAT,QAAS,C;K;gFAE5E,yB;MAaA,gE;MabA,6B;QAYBI,WAAW ,eAduE,IAcvE,C;QWCX,iBAAc,CAAd,UXfkF,IWefI,U;UXA6B,eAf2D,IAevD,CWctB,KXDsB,CAAJ,C;;QAFyC ,OAgB/D,I;O;KA3BX,C;8FAaA,yB;MAAA,gE;MAAA,6B;QAYI,WAAW,eAAa,IAAb,C;QWCX,iBAAc,CAAd,U XAO,IWAP,U;UXA6B,eAAI,KWctB,KXDsB,CAAJ,C;;QAC7B,OAAO,I;O;KAdX,C;wFAiBA,yB;Me1FA,+D;M f0FA,gC;QetF0B,gBAAf,gB;QfsGkB,aW3FzB,W;QX2FA,OW1FO,SIZoC,Q;O;KfsF/C,C;yFAwBA,yB;Me3GA,4 E;MAAA,gE;Mf2GA,0C;QevGI,qBf2HyB,Qe3HzB,C;QAC8B,gBAAvB,ef0HkB,Qe1HIB,C;Qf0H4B,aWvHnC,W; QXuHA,OWtHO,SIJ4C,Q;O;KfsGvD,C;IAiCl,mC;MAAQ,uBAAG,iBAAO,CAAP,IAAH,C;K;IAQR,qC;MAAQ, OAAA,SAAK,KAAL,GAAy,CAAZ,I;K;4FAEZ,qB;MAK4D,QAAC,mB;K;kGAE7D,qB;MAWI,OAAO,qBAAGB ,SAAK,U;K;sFAGhC,yB;MAAA,qD;MAAA,4B;QAKgE,uCAAQ,W;O;KALxE,C;sFAOA,yB;MAAA,qD;MAAA, 4B;QAKoD,uCAAQ,W;O;KAL5D,C;sFAOA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,GAAmC,S;K;4FAGvC,+B; MAQoH,OAAA,SAAK,qBAAY,QAAC,C;K;IAGzH,uC;MAK+E,kBAAhB,0B;MAAwB,+B;MAAxB,OW5MpD, W;K;IX+MX,yC;MAAkD,QAAM,cAAN,C;aAC9C,C;UAD8C,OACzC,W;aACL,C;UAF8C,OAeZC,OAAO,sBAA K,CAAL,CAAP,C;gBAFyC,OAGtC,S;;K;IAGZ,8D;MAGbKE,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;M ACjG,WAAW,cAAX,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAE X,OAAO,OAAO,IAAd,C;QACI,UAAW,GAAy,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,U AAU,cAAc,MAAd,EAAsB,OAAtB,C;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI ,MAAM,CAAV,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF, K;K;IAGX,4E;MAe8E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC7G,WAAW,cAAX,EAAiB,SAAjB, EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd,C;QACI,UAA W,GAAy,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,UAAW,SAAQ,MAAR,EAAgB, OAAhB,C;QAErB,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD, OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;kGAGX,yB;MAAA,8 D;MAAA,4D;MAsbQc,8D;QAAA,qB;UAAE,qBAAc,iBAAS,EAAT,CAAd,EAA4B,WAA5B,C;S;O;MatBvC,+D ;QakBI,yB;UAAA,YAAiB,C;QACjB,uB;UAAA,UAAe,c;QAGf,+BAAa,SAAb,EAAwB,OAAxB,EAAiC,oCAAjC ,C;O;KAtBJ,C;IA6BA,mE;MAmBoC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACnE,WAAW,cAAX,E AAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd, C;QACI,UAAW,GAAy,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,WAAW,MAAX,C ;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD,OAAO,M AAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;IAGX,8C;MAMQ,gBAAY,OA AZ,C;QAAuB,MAAM,gCAAYB,gBAAa,SAAb,mCAAKD,OAAID,OAAzB,C;WAC7B,gBAAY,CAAZ,C;QAAiB, MAAM,8BAA0B,gBAAa,SAAb,yBAA1B,C;WACvB,cAAU,IAAV,C;QAAkB,MAAM,8BAA0B,cAAW,OAAx,g CAA2C,IAA3C,OAA1B,C;K;IAchC,8B;MAEoC,MAAM,wBAAoB,8BAApB,C;K;IAE1C,8B;MAEoC,MAAM,w BAAoB,8BAApB,C;K;;;wF2Gjb1C,yB;M1GgCA,wE;M0GhCA,uC;QAmBW,kB1GqBiD,oB;Q0GM9C,Q;QAAA, OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ, C;UACIB,W1GuKJ,a0GvKgB,G1GuKhB,E0GrMyC,SA8BIB,CAAU,GAAV,EAAe,WAAf,EAA4B,CAA5B,EAA +B,uBAAuB,CAAC,WAAy,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;Q0GrMA,OAGCO,W;O;KAnDX,C;4FAsBA, 6C;MAwBc,Q;MAAA,OAAA,SAAK,iB;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,sBAAM,CAAN,C;Q ACV,kBAAkB,sBAAY,GAAZ,C;QACIB,W1GuKJ,a0GvKgB,G1GuKhB,E0GvKuB,UAAU,GAAV,EAAe,WAAf, EAA4B,CAA5B,EAA+B,uBAAuB,CAAC,WAAy,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;M0GrKA,OAAO,W;K; iFAGX,yB;MAAA,gB;MAAA,8B;M1GtBA,wE;M0GsBA,6D;QAnCW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAA K,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;U A8BwE,U;UA7B1F,W1GuKJ,a0GvKgB,G1GuKhB,E0G1IkC,UA7BD,GA6BC,EA7BoB,uBAAuB,CAAC,WAAy ,mBAAY,GAAZ,CA6BzC,GAAW,qBA7B3B,GA6B2B,EA7BT,CA6BS,CAAX,GAA6C,UA7BxD,WA6BwD,6D AA5D,EA7BiB,CA6BjB,C1G0IIC,C;;Q0G3IA,OA1BO,W;O;KAGX,C;kFA0BA,yB;MAAA,gB;MAAA,8B;MAA

A,0E;QAICc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,k  
BA6DQ,WA7DU,WAAY,GAAZ,C;UA6DuF,U;UAAjG,W1G2GZ,a0GvKGB,G1GuKhB,E0G3GiD,UA5DhB,GA4  
DgB,EA5DK,uBAAuB,CA4DjE,WA5D8E,mBAAY,GAAZ,CA4D1B,GAAW,qBA5D1C,GA4D0C,EA5DxB,CA4  
DwB,CAAX,GAA6C,UA5DvE,WA4DuE,6DAA5D,EA5DE,CA4DF,C1G2GjD,C;;Q0G5GA,OACY,W;O;KA7Bh  
B,C;iFAgCA,yB;MAAA,gB;MAAA,8B;M1GhFA,wE;M0GgFA,qD;QA7FW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,  
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAaKb,sBAAY,GAAZ,  
C;UAKfID,U;UAjFnE,W1GuKJ,a0GvKGB,G1GuKhB,E0GtFgC,UajFsB,uBAAuB,CAAC,WAAY,mBAAY,GAA  
Z,CAiFhD,kBAA6B,UajFjC,WaiFiC,6DAAvC,EajFmB,CAiFnB,C1GsFhC,C;;Q0GvFA,OA9EO,W;O;KA6DX,  
C;oFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,kE;QAtFc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;  
UACN,UAAU,sBAAM,CAAN,C;UACV,kBA2GQ,WA3GU,WAAY,GAAZ,C;UA2GgE,U;UAA1E,W1G6DZ,a0G  
vKGB,G1GuKhB,E0G7D+C,UA1GO,uBAAuB,CA0GjE,WA1G8E,mBAAY,GAAZ,CA0GjC,kBAA6B,UA1GhD,  
WA0GgD,6DAAvC,EA1GI,CA0GJ,C1G6D/C,C;;Q0G9DA,OACY,W;O;KAvBhB,C;qFA0BA,yB;MAAA,gB;MA  
AA,8B;M1G9HA,wE;M0G8HA,uC;QA3IW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,  
C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAaKb,sBAAY,GAAZ,C;UACC,oB;UAKlC,U;UAAjC,I  
AllkD,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAkItF,C;YADA,mBAjI+C,C;;YaiI/C,mBACkB,UAIW,GAkIX  
,EAAe,UAIIC,WakID,6DAAf,EAI6B,CAkI7B,C;;UAIIB,W1GuKJ,a0GvKGB,G1GuKhB,mB;;Q0GvCA,OA9HO  
,W;O;KA2GX,C;sFAwBA,yB;MAAA,gB;MAAA,8B;MAAA,oD;QAxIc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAA  
V,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA6JQ,WA7JU,WAAY,GAAZ,C;UACC,oB;UA8Jc,U  
;UAAjC,IA9JkD,uBAAuB,CA4JjE,WA5J8E,mBAAY,GAAZ,CA8JtF,C;YADA,mBA7J+C,C;;YA6J/C,mBACkB,  
UA9JW,GA8JX,EAAe,UA9JC,WA8JD,6DAAf,EA9J6B,CA8J7B,C;;UAFV,W1GWZ,a0GvKGB,G1GuKhB,mB;;Q  
0GXA,OAAY,W;O;KAvBhB,C;IA6BA,6C;MArKc,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QA  
CN,UAAU,sBAAM,CAAN,C;QACV,kBA+KG,WA/Ke,WAAY,GAAZ,C;QA2GgE,U;QAoE/E,W1GPP,a0GvKGB  
,G1GuKhB,E0GomC,CA9KmB,uBAAuB,CA8KtE,WA9KmF,mBAAY,GAAZ,CA0GjC,GAoErC,CAPeQc,GAA6  
B,UA1GhD,WA0GgD,6DAoEnD,IAAM,CAAN,I1GPnC,C;;M0GOA,OAAO,W;K;I+DnPOB,oC;MAAC,kB;MAA  
uB,kB;K;;wCAN7D,Y;MAMsC,iB;K;wCANtC,Y;MAM6D,iB;K;0CAN7D,wB;MAAA,wBAMsC,qCANtC,EAM6  
D,qCAN7D,C;K;sCAAA,Y;MAAA,OAMsC,mDANtC,IAM6D,wCAN7D,O;K;sCAAA,Y;MAAA,c;MAMsC,sD;  
MAAuB,sD;MAN7D,a;K;oCAAA,iB;MAAA,4IAMsC,sCANtC,IAM6D,sCAN7D,I;K;wFpKEA,yB;MAAA,kC;M  
AAA,4C;MAAA,kD;QAMuF,wC;O;MANvF,4CAOI,Y;QAAuC,8B;O;MAP3C,8E;MAAA,2B;QAMuF,2C;O;KA  
NvF,C;IAcsC,2C;MAAC,wC;K;0CACnC,Y;MAAqD,4BAAiB,wBAajB,C;K;;IAIzD,yC;MAI4D,OAAI,oCAAJ,G  
AA2B,SAAK,KAAhC,GAA0C,I;K;IAEtG,uD;MAI0E,OAAI,oCAAJ,GAA2B,SAAK,KAAhC,GAA0C,S;K;IAGp  
H,8B;MAMoB,Q;MADhB,aAAa,gB;MACG,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACL,OAAP,MAAO,E  
AAO,OAAP,C;;MAEX,OAAO,M;K;IAGX,4B;MAUiB,Q;MAHb,mBAAmB,mCAAwB,EAAXB,C;MACnB,YAA  
Y,iBAAa,YAAb,C;MACZ,YAAy,iBAAa,YAAb,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,W  
AAI,IAAK,MAAT,C;QACN,KAAM,WAAL,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;wFUxDX,qB;MA  
KqE,gB;K;IAErE,iC;MAMoE,4BAAiB,SAajB,C;K;uFAEpE,gC;MAKI,OAAGB,mBAhB,C;QAAGB,8B;QAAM,  
UAAU,OAAV,C;;K;IAMY,oC;MAAC,0B;MACnC,eAAoB,C;K;yCACpB,Y;MAAwC,OAAA,eAAS,U;K;sCACjD  
,Y;MAA6E,Q;MAAhC,wBAAa,oBAAmB,mBAAnB,EAAMB,2BAAnB,QAAb,EAA0C,eAAS,OAAnD,C;K;;sF2J  
5BjD,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAUiC,Q;QAA7B,OAA6B,wCAAqB,QAAAS,aAA9B,0D;  
O;KAVjC,C;wFAYA,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAWiC,Q;QAA7B,OAA6B,wCAAqB,Q  
AAS,aAA9B,0D;O;KAXjC,C;sFAaA,+C;MAQI,SAAK,aAAI,QAAS,aAAb,EAAMB,KAAAnB,C;K;ICnCT,8C;MA  
UI,IAAI,wCAAJ,C;QACI,OAAO,SAAK,4BAAqB,GAARb,C;MAET,4B;M3KoTI,Q;MALX,YAAy,oB2K/Sa,G3  
K+Sb,C;MACZ,IAAI,iBAAiB,CAAC,4B2KhTG,G3KgTH,CAAtB,C;Q2KhTgC,MAAM,2BAAuB,wCAAvB,C;;Q  
3KoTIC,2BAAO,sE;;M2KpTX,+B;K;IAGJ,8C;MAUQ,kBADE,SACF,kB;QADJ,OACkC,YAAT,SAAK,IAAI,EA  
AY,YAAZ,C;;QADIC,OAey,uBAAMB,SAAnB,EAAYB,YAAZB,C;K;IAGhB,gD;MAWQ,kBADE,SACF,yB;QA  
DJ,OACyC,cAAT,SAAK,IAAI,EAAY,YAAZ,C;;QADzC,OAey,8BAA0B,SAAI1B,EAAGC,YAAhC,C;K;;;;;Iac  
0B,4C;MAAC,wB;MAAoC,0B;K;qEAApC,Y;MAAA,yB;K;0CACvC,iB;MAA4C,OAAI,OAAl,QAAl,EAAO,KA  
AP,C;K;4CAChD,Y;MAA+B,OAAI,SAAJ,QAAl,C;K;4CACnC,Y;MAAkC,OAAA,QAAl,W;K;0FACf,Y;MAAQ,  
OAAA,QAAl,K;K;2CACnC,Y;MAAkC,OAAA,QAAl,U;K;qDACtC,e;MAA4C,OAAA,QAAl,mBAAY,GAAZ,C;



K;uDACHD,iB;MAAgE,OAAA,QAAI,qBAAC,KAAd,C;K;6CACPe,e;MAA+B,OAAA,QAAI,WAAI,GAAJ,C;K;0  
FACT,Y;MAAQ,OAAA,QAAI,K;K;4FACH,Y;MAAQ,OAAA,QAAI,O;K;6FACJ,Y;MAAQ,OAAA,QAAI,Q;K;8  
DAEvD,e;MAAmD,gBAAJ,Q;MAAI,4B;M3K4Px,C,Q;MALX,YAAY,oB2KvPyD,G3KuPzD,C;MACZ,IAAI,iBA  
AiB,CAAC,4B2KxP+C,G3KwP/C,CAAtB,C;QACI,2B2KzPwE,mB;;Q3K4PxE,2BAAO,sE;;M2K5PoC,+B;K;;IA  
GN,mD;MAAC,wB;MAA2C,0B;K;4EAA3C,Y;MAAA,yB;K;iDAC1C,iB;MAA4C,OAAI,OAAJ,QAAI,EAAO,K  
AAP,C;K;mDACHD,Y;MAA+B,OAAI,SAAJ,QAAI,C;K;mDACnC,Y;MAAkC,OAAA,QAAI,W;K;iGACf,Y;MA  
AQ,OAAA,QAAI,K;K;kDACnC,Y;MAAkC,OAAA,QAAI,U;K;4DActC,e;MAA4C,OAAA,QAAI,mBAAy,GAA  
Z,C;K;8DACHD,iB;MAAgE,OAAA,QAAI,qBAAC,KAAd,C;K;oDACPe,e;MAA+B,OAAA,QAAI,WAAI,GAAJ,C  
;K;iGACf,Y;MAAQ,OAAA,QAAI,K;K;mGACH,Y;MAAQ,OAAA,QAAI,O;K;oGACU,Y;MAAQ,OAAA,QAAI,  
Q;K;sDAE5E,sB;MAAyC,OAAA,QAAI,aAAI,GAAJ,EAAS,KAAT,C;K;uDAC7C,e;MAAkC,OAAA,QAAI,cAA  
O,GAAP,C;K;yDActC,gB;MAA2C,QAAI,gBAAO,IAAP,C;K;gDAC/C,Y;MAAuB,QAAI,Q;K;qEAE3B,e;MAAm  
D,gBAAJ,Q;MAAI,4B;M3KuOxC,Q;MALX,YAAY,oB2KIOyD,G3KkOzD,C;MACZ,IAAI,iBAAiB,CAAC,4B2K  
nO+C,G3KmO/C,CAAtB,C;QACI,2B2KpOwE,mB;;Q3KuOxE,2BAAO,sE;;M2KvOoC,+B;K;;I3KvFnD,oB;MAA  
A,wB;MACI,8C;K;gCAEA,iB;MAA4C,oCAAsB,KAAM,U;K;kCACxE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K  
;gFAEX,Y;MAAQ,Q;K;iCAC/B,Y;MAAkC,W;K;2CAEIC,e;MAA+C,Y;K;6CAC/C,iB;MAAsD,Y;K;mCACtD,e;  
MAAwC,W;K;mFACY,Y;MAAQ,6B;K;gFAC/B,Y;MAAQ,6B;K;kFACI,Y;MAAQ,8B;K;uCAEjD,Y;MAAiC,6B;  
K;;IAjBrC,gC;MAAA,+B;QAAA,c;OAAA,wB;K;IAoBA,oB;MAMuE,Q;MAA7B,OAA6B,uE;K;IAEvE,wB;MAA  
I,OAAI,KAAM,OAAN,GAAa,CAAJB,GAA0B,QAAN,KAAM,EAAM,qBAAC,YAAY,KAAM,OAAIB,CAAd,CA  
AN,CAA1B,GAA6E,U;K;kFAEjF,yB;MAAA,oD;MAAA,mB;QAO8C,iB;O;KAP9C,C;8FASA,yB;MAAA,wE;M  
AAA,mB;QAQ4D,2B;O;KAR5D,C;IAUA,+B;MAYiD,gBAA7C,qBAAoB,YAAY,KAAM,OAAIB,CAApB,C;MA  
AqD,wB;MAArD,OUJO,S;K;wFVMX,yB;MAAA,4D;MAAA,mB;QAOsD,qB;O;KAPtD,C;IASA,4B;MAM8G,gB  
AAvC,eAAc,YAAY,KAAM,OAAIB,CAAd,C;MAA+C,wB;MAA/C,OUrB5D,S;K;4FVuBX,yB;MAAA,wE;MAA  
A,mB;QAK8D,2B;O;KAL9D,C;IAOA,8B;MAU+E,OAAM,QAAN,KAAM,EAAM,qBAAC,YAAY,KAAM,OAAI  
B,CAAd,CAAN,C;K;sFAErF,yB;MchBA,wE;MdgBA,gC;QcZiC,gBAAtB,oB;Qd8BiB,aU7DxB,W;QV6DA,OU5  
DO,SI8B2C,Q;O;KdYtD,C;uFA0BA,yB;McnCA,uE;MdmCA,0C;Qc/ByC,gBAA9B,mBdqDiB,QcrDjB,C;QdqD2B  
,aU3FIC,W;QV2FA,OU1FO,SIqCmD,Q;O;Kd+B9D,C;4FAoCA,qB;MAK+D,QAAC,mB;K;kGAHEh,qB;MAWI,O  
AAO,qBAAGB,mB;K;sFAG3B,yB;MAAA,oD;MAAA,4B;QAM2D,uCAAQ,U;O;KANnE,C;sFAQA,mC;MASI,O  
AAI,mBAAJ,GAAe,cAAf,GAAMC,S;K;yFAEvC,yB;MAyBA,kC;MAAA,8B;MAzBA,iC;QAGCiC,Q;QAxB2E,O  
AwBxD,CAAnB,wDAAmB,oBAxB0E,GAwBpE,C;O;KAhCpD,C;+EAUA,yB;MAAA,kC;MAAA,8B;MAAA,iC;  
QAKiC,Q;QAA7B,OAAGD,CAAnB,wDAAmB,YAAI,GAAJ,C;O;KALpD,C;+EAOA,iC;MAKI,sBAAI,GAAJ,EA  
AS,KAAT,C;K;4FAGJ,yB;MAAA,kC;MAAA,8B;MAAA,iC;QAOiC,Q;QAA7B,OAAGD,CAAnB,wDAAmB,oBA  
AY,GAAZ,C;O;KAPpD,C;gGASA,4B;MASsG,OAAA,SAAK,qBAAC,KAAd,C;K;kFAG3G,yB;MAAA,gD;MAA  
A,8B;MAAA,iC;QASiC,Q;QAA7B,OAAdD,CAA1B,+DAA0B,eAAO,GAAP,C;O;KAT3D,C;6FAWA,qB;MAWo  
E,oB;K;6FAEpE,qB;MAWoE,sB;K;kFAEpE,yB;MAAA,6B;MAAA,4B;QAIgE,qBAAK,aAAL,EAAU,eAAV,C;O;  
KAJhE,C;2FAMA,wC;MAMiF,Q;MAAA,mCAAI,GAAJ,oBAAy,c;K;uGAG7F,yB;MAAA,gB;MAAA,8B;MAA  
A,+C;QAMe,Q;QALX,YAAY,oBAAI,GAAJ,C;QACZ,IAAI,iBAAiB,CAAC,4BAAy,GAAZ,CAAtB,C;UACI,OA  
AO,c;;UAGP,OAAO,sE;;O;KANf,C;IAUA,oC;MAUkD,uCAAqB,GAARb,C;K;sFAEID,wC;MAUW,Q;MADP,YA  
AY,oBAAI,GAAJ,C;MACL,IAAI,aAAJ,C;QACH,aAAa,c;QACb,sBAAI,GAAJ,EAAS,MAAT,C;QACA,a;;QAEA  
,Y;;MALJ,W;K;wFASJ,qB;MAMwF,OAAA,iBAAQ,W;K;wFAEHg,qB;MAMgH,OAAA,iBAAQ,W;K;4FAEXH,6  
C;Maq1BoB,Q;MAAA,Obh1BT,iBag1BS,W;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;Qbh1Ba,Wai1Bb,aAAgB,O  
bj1Be,Iai1B/B,Ebj1BsC,Sai1BZ,CAAe,OAAf,CAA1B,C;;Mbj1BhB,OAA6B,W;K;wFAGjC,6C;Ma60BoB,Q;MAA  
A,Obr0BT,iBaq0BS,W;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;Qbr0Ba,Was0Bb,abt0B0B,Sas0BtB,CAAY,OAAZ  
,CAAJ,EAAYC,Obt0BC,Mas0B1C,C;;Mbt0BhB,OAA6B,W;K;IAGjC,kC;MAIyB,Q;MAArB,wBAAqB,KAARb,g  
B;QAAqB,aAAA,KAARb,M;QAAK,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;IAIR,oC;  
MAIyB,Q;MAAA,uB;MAArB,OAAGB,cAArB,C;QAAqB,wB;QAAhB,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,  
GAAJ,EAAS,KAAT,C;;K;IAIR,oC;MAIyB,Q;MAAA,uB;MAArB,OAAGB,cAArB,C;QAAqB,wB;QAAhB,IAAC,  
yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;wFAIR,yB;MAAA,0D;MAAA,uE;MAAA,uC;QAS  
W,kBAAy,mBAAoB,YAAY,cAAZ,CAApB,C;Qa8xBH,Q;QAAA,Obh1BT,iBag1BS,W;QAAhB,OAAGB,cAAhB,

C;UAAgB,yB;Ubh1Ba,Wai1Bb,aAAGB,Obj1Be,Iai1B/B,Eb/xB2C,Sa+xBjB,CAAe,OAAf,CAA1B,C;;Qb/xBhB,O  
AlD6B,W;O;KAyCjC,C;oFAYa,yB;MAAA,0D;MAAA,uE;MAAA,uC;QAYW,kBAAU,mBAAoB,YAAy,cAAZ,  
CAApB,C;Qa+wBD,Q;QAAA,Obr0BT,iBaq0BS,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;Ubr0Ba,Was0Bb,abh  
xByC,SagxBrc,CAAY,OAAZ,CAAJ,EAAyC,Obt0BC,Mas0B1C,C;;QbhxBhB,OAtD6B,W;O;KA0CjC,C;0FAeA,y  
B;MAAA,wE;MAAA,uC;QAQkB,Q;QADd,aAAa,oB;QACC,OAAA,SA3FsE,QAAQ,W;QA2F5F,OAAc,cAAd,C;  
UAAc,uB;UACV,IAAI,UAAU,KAAM,IAAhB,CAAJ,C;YACI,MAAO,aAAI,KAAM,IAAV,EAAe,KAAM,MAAr  
B,C;;QAGf,OAAO,M;O;KAbX,C;8FAGBA,yB;MAAA,wE;MAAA,uC;QAQkB,Q;QADd,aAAa,oB;QACC,OAAA,  
SA3GsE,QAAQ,W;QA2G5F,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,KAAM,MAAhB,CAAJ,C;YACI,MA  
AO,aAAI,KAAM,IAAV,EAAe,KAAM,MAArB,C;;QAGf,OAAO,M;O;KAbX,C;yFAiBA,6C;MAOoB,Q;MAAA,  
OAAA,SA3HoE,QAAQ,W;MA2H5F,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,  
WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;MAGpB,OAAO,W;K;qFAGX,yB;MAAA,wE;MAAA,uC;  
QAOW,kBAAS,oB;QafA,Q;QAAA,OA3HoE,iBAAQ,W;QA2H5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAcmC,  
SAd/B,CAAU,OAAV,CAAJ,C;YACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;QAapB,OAVO,W;  
O;KAGX,C;+FAUA,6C;MAOoB,Q;MAAA,OAAA,SAPJoE,QAAQ,W;MAoJ5F,OAAgB,cAAhB,C;QAAgB,yB;Q  
ACZ,IAAI,CAAC,UAAU,OAAV,CAAL,C;UACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;MAGp  
B,OAAO,W;K;2FAGX,yB;MAAA,wE;MAAA,uC;QAOW,kBAAy,oB;QafH,Q;QAAA,OApJoE,iBAAQ,W;QAoJ  
5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,CAckC,SAdjC,CAAU,OAAV,CAAL,C;YACI,WAAY,aAAI,OAA  
Q,IAAZ,EAAiB,OAAQ,MAAzB,C;;QAapB,OAVO,W;O;KAGX,C;IAUA,0B;MAQqB,IAAN,I;MADX,IAAI,oCA  
AJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAakB,sBAAK,CA  
AL,CAAlB,GAA+B,oBAAW,OAAhD,C;YAAL,K;kBACQ,0BAAM,qBAAoB,YAAy,cAAZ,CAApB,CAAN,C;Y  
AHL,K;;QAAP,W;OAMJ,OAAoC,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAGxC,yC;MAIwB,SAApB,WAAoB  
,Y;MAApB,kB;K;IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEPD,  
MAAM,UAAK,CAAL,CAAN,C;gBAFoD,OAGjD,mBAAM,qBAAoB,YAAy,gBAAZ,CAApB,CAAN,C;;K;IAG  
Z,yC;MAIwB,OAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAM4D,OAA6B,oBAA7B,mBAAM,oBAAN,CAA6B  
,C;K;IAEzF,yC;MAIwB,SAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD  
,OAC5C,U;aACL,C;UAFiD,Oc/X8B,uB;gBd+X9B,OAGzC,uB;;K;IAGZ,iC;MAMmE,4BAAC,SAAd,C;K;IAEnE,  
yC;MAKI,WAAoB,0B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,I  
AAN,C;;QAAqC,kBAApB,qBAAC,SAAd,C;QAA4B,wBAAS,UAAT,EAAqB,WAArB,C;QAAjE,OUHiBO,W;;M  
VgiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAAp  
B,qBAAC,SAAd,C;QAA4B,4B;QAAAnE,OUziBO,W;;MVyiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UA  
T,C;QAAA,OAA0B,QAAN,KAAM,C;;QAAiC,kBAApB,qBAAC,SAAd,C;QAA4B,0B;QAAAnE,OUjBO,W;;MVkj  
BP,W;K;IAEJ,mC;MAOWB,kBAApB,qBAAC,SAAd,C;MAA4B,4B;MAA5B,OAA4C,oBU3jBrC,WV2jBqC,C;K;I  
AEhD,iC;MAOWB,kBAApB,qBAAC,SAAd,C;MAA4B,+B;MAA5B,OUpkBO,W;K;0FVukBX,2B;MAKI,sBAAI,I  
AAK,MAAT,EAAgB,IAAK,OAArB,C;K;4FAGJ,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;  
4FAQA,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FAQA,yB;MAAA,gD;MAAA,mC;QAK  
I,kBAAO,KAAP,C;O;KALJ,C;4FAQA,0B;MAKI,yBAAO,GAAP,C;K;IAGJ,kC;MAOWB,kBAAF,aAAL,SAAK,C;  
MAAsCL,6B;MAtCA,OAA+C,oBUtnBxC,WVsnBwC,C;K;IAEnD,mC;MAQwB,kBAAF,aAAL,SAAK,C;MAqCK,  
YAAL,gBAAK,O;MArCV,OAAgD,oBUHoBzC,WVgoByC,C;K;IAEpD,mC;MAQwB,kBAAF,aAAL,SAAK,C;MA  
oCK,YAAL,gBAAK,O;MApCV,OAAgD,oBU1oBzC,WV0oByC,C;K;IAEpD,mC;MAQwB,kBAAF,aAAL,SAAK,  
C;MAMCK,YAAL,gBAAK,O;MANCV,OAAgD,oBUppBzC,WVopByC,C;K;4FAEPD,0B;MAMI,uBAAO,GAAP,  
C;K;8FAGJ,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MA  
AA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;Q  
AMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;IAUA,wC;MACsD,QAAM,cAAN,C;aACID,C;UADkD,O  
AC7C,U;aACL,C;UAFkD,gB;gBAAA,OAG1C,S;;K;oF4KtwBZ,yB;MAAA,8D;MAAA,8B;MAAA,qC;QAUiC,Q;  
QAA7B,OAA2D,CAA9B,sEAA8B,eAAO,OAAP,C;O;KAV/D,C;wFAyA,yB;MAAA,8D;MAAA,8B;MAAA,sC;  
QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;wFAWA,yB;MAAA,8D;MAAA,8B;  
MAAA,sC;QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;4FAWA,8B;MAKI,SA  
K,WAAI,OAAJ,C;K;4FAGT,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQ

A,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC ;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;8FAQA,8B;MAKI,SAAK,cAAO,OAAP,C;K;8FAGT,yB;MAA A,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UA AL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C ;O;KALT,C;IAQA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACF,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB, K;QACT,0B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,oBAAL,IAAJ,CAAJ,C;YAAe,SAAS,I;;QAC5B,OAAO ,M;;K;IAKnB,uC;MAKiB,Q;MADb,aAAsB,K;MACT,0B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,oBAAL,I AAJ,CAAJ,C;UAAe,SAAS,I;;MAE5B,OAAO,M;K;IAGX,uC;MAII,OAAO,yBAAGB,OAAT,QAAS,CAAhB,C;K; IAGX,0C;MAIW,iBAAMb,gCAAT,QAAS,EAAgC,SAAhC,C;MAIHG,Q;MAkH7B,OAIH2D,CAA9B,sEAA8B,o BAAU,UAAV,C;K;IAqH/D,0C;MAII,UAAmB,8BAAT,QAAS,C;MACnB,O7K0EwD,C6K1EjD,G7K0EkD,U6K1 EID,IAAoB,4BAAU,GAAV,C;K;IAG/B,0C;MAII,OnLqoPO,EmLroPA,QnL6jPA,YAAQ,CAwER,CmLroPA,IAA yB,4BAAmB,8BAAT,QAAS,CAAnB,C;K;IAGpC,0C;MAIW,iBAAMb,gCAAT,QAAS,EAAgC,SAAhC,C;MA7H G,Q;MA6H7B,OA7H2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAGI/D,0C;MAII,InLunPO,EmLvnPH,QnL+iPG, YAAQ,CAwER,CmLvnPP,C;QACI,OAAO,4BAAmB,8BAAT,QAAS,CAAnB,C;;QAEp,OAAO,wB;K;IAGf,0C; MAII,UAAmB,8BAAT,QAAS,C;MACnB,I7K0CwD,C6K1CpD,G7K0CqD,U6K1CzD,C;QACI,OAAO,4BAAU,G AAV,C;;QAEp,OAAO,wB;K;IAGf,kC;MACI,a7KmCwD,CAAC,mB;M6KICzD,iB;MACA,OAAO,M;K;IAIX,2C; MAKkF,gCAAc,SAAd,EAAyB,IAAzB,C;K;IAEIF,2C;MAKkF,gCAAc,SAAd,EAAyB,KAAzB,C;K;IAEIF,sE;MA CI,iBAAa,KAAb,C;MIKIjgB,kBkKmJX,oB;MACD,OAAO,qBAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UA CI,oB;UACA,WAAS,I;SAGrB,OAAO,Q;K;oFAIX,4B;MAM6D,kCAAS,KAAT,C;K;IAE7D,gC;MAKiD,IAAI,m BAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;IAEpH,sC;MAKwD,OAAI, mBAAJ,GAAe,IAAf,GAAyB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,g BAAvB,C;;QAArB,OAAmE,2BAAS,2BAAT,C;K;IAEnH,qC;MAKuD,OAAI,mBAAJ,GAAe,IAAf,GAAyB,2BA AS,2BAAT,C;K;IAEHf,2C;MAK8E,kCAAc,SAAd,EAAyB,IAAzB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAy B,KAAzB,C;K;IAE9E,wE;MAEgB,UAGS,MAHT,EAcY,MAdZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAO C,cAA5B,sEAA4B,EAAc,SAAd,EAAyB,uBAAzB,C;MAExC,iBAAsB,C;MACD,oC;MAArB,qBAAkB,CAAlB,m C;QACI,cAAc,sBAAK,SAAL,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAc,SA AIB,C;UACI,sBAK,UAAL,EAAmB,OAAmB,C;QAEJ,+B;;MAEJ,IAAI,aAAa,cAAjB,C;QACwB,oC;QAAiB,mB ;QAArC,oE;UACI,2BAAS,WAAT,C;QAEJ,OAAO,I;;QAEp,OAAO,K;;K;IChS+B,wC;MAAkC,uB;MAAjC,0B;K; 4FACpB,Y;MAAQ,OAAA,eAAS,K;K;iDACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;;IAGT,gC;M AAyC,8B;MAAxC,0B;K;oFACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB, CAAT,C;K;mCAEIC,Y;MAAuB,eAAS,Q;K;8CACCh,iB;MAAuC,OAAA,eAAS,kBAAS,0BAAoB,KAApB,CAA T,C;K;yCAEHd,0B;MAA8C,OAAA,eAAS,aAAI,0BAAoB,KAApB,CAAJ,EAAgC,OAAhC,C;K;yCACvD,0B;MA CI,eAAS,aAAI,2BAAqB,KAArB,CAAJ,EAAiC,OAAjC,C;K;;IAIjB,+C;MACoB,Q;MAAA,kC;MAAhB,IAAa,CA AT,0BAAJ,C;QAAA,OAA2B,8BAAy,KAAZ,I;;QAAuB,MAAM,8BAA0B,mBAAgB,KAAhB,2BAA0C,gBAAG, 2BAAH,CAA1C,OAA1B,C;K;IAE5D,gD;MACoB,Q;MAAA,qB;MAAhB,IAAa,CAAT,0BAAJ,C;QAAA,OAA5B, iBAAO,KAAp,I;;QAAkB,MAAM,8BAA0B,oBAAiB,KAAjB,2BAA2C,gBAAG,cAAH,CAA3C,OAA1B,C;K;IAG ID,+B;MAK+C,gCAAqB,SAArB,C;K;IAE/C,iC;MAM6D,wBAAa,SAAb,C;K;;;IvKpC7D,oD;MAQuF,wC;K;IAR vF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IwKY8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IATh,yB;MASqG ,oCAAS,sBAAT,C;K;8FAErG,yB;MAAA,kD;MxKdA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI, Y;QAAuC,8B;O;MAT3C,8E;MwKiB2I,qD;QAAA,mB;UAAE,gBAAS,qBAAT,C;S;O;MAH7I,gC;QAGkI,kCAAS ,mCAAT,C;O;KAHII,C;IAKA,2B;MAQI,eAAe,6B;MACf,oBAA0B,+BAAN,KAAM,EAAwC,QAAxC,EAA+D,Q AA/D,C;MAC1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHII,C;IAGB0C,y B;K;+CAoBtC,kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MACID,OAAO,sBAAS,QAAS,WAAIB,e; K;+CAGX,kC;MAQqD,6BAAS,QAAS,WAAIB,e;K;;;IAezD,mC;MAA2C,wB;MACvC,eAAoB,C;MACpB,mB AA4B,I;MAC5B,sBAAyC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eA CI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAe,UAAmB,C;cACI,eAAQ,C;cACR,OAAO,I;;cAEP,sBAAE,I;;YALvB, K;eAOA,C;YAAc,OAAO,K;eACrB,C;eAAA,C;YAAgC,OAAO,I;kBAC/B,MAAM,yB;;QAGIB,eAAQ,C;QACR, WAAW,4B;QACX,gBAAW,I;QACX,IxH/FR,oBDgDQ,WyH+CY,kBzH/CZ,CChDR,C;;K;6CwHmGA,Y;MACU,

IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,C;UAAcC,OAAO,qB;aAC7C,C;UACI,eAAQ,C;UACR,OAAO,k  
CAAe,O;aAE1B,C;UACI,eAAQ,C;UACR,aAcA,mF;UACb,mBAAY,I;UACZ,OAAO,M;gBAEH,MAAM,yB;;K;u  
DAItB,Y;MACI,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;;QAA8B,OAAO,W;K;2DAG/D,Y;MAA4C,QAAM,Y  
AAN,C;aACx C,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gBAFwB,OAGhC,6BAAs  
B,uCAAoC,YAA1D,C;;K;IAOqC,4E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;oDALR,+B;MACI,  
mBAAY,K;MACZ,eAAQ,C;MACR,OAA6C,0CAAtC,c;K;IAUsC,+E;MAAA,oB;QACzC,wCAAW,C;QAAX,OA  
CA,yB;O;K;yDANR,kC;MACI,IAAI,CAAC,QAAS,UAA d,C;QAAYB,M;MACzB,sBA Ae,Q;MACf,eAAQ,C;MAC  
R,OAA6C,6CAAtC,c;K;2DAMX,kB;MzHjBO,Q;MADP,eyHoBI,MzHpBJ,C;MACO,QyHmBH,MzHnBG,+D;My  
HoBH,eAAQ,C;K;kGAIR,Y;MAAQ,0C;K;;IxK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,g  
F;sFAAA,yB;MAAA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MA  
AA,2B;QAQuF,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALIE,kC;MAKuD,OAAkB,2CAAT,+BA  
AS,E;K;IAEzE,8B;MAK6D,OAAI,Qb2rPtD,YAAQ,Ca3rP0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEn  
H,yB;MAG8C,kC;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MA  
A4B,kC;K;;IAHhC,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;oFAMA,yB;MAAA,2D;MAAA,4B;QAM4D,uCAAQ  
e;O;KANpE,C;IAGB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;;;kDAAA,  
Y;;;;cACxF,eAAe,uBA Aa,W;cAC5B,IAAI,QAAS,UAA b,C;gBACI,gB;gCAAA,sCAAS,QAAT,O;oBAAA,2C;yB  
AAA,yB;gBAAA,Q;;gBAEA,gB;gCAAA,sCAAS,iCAAT,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;;;;cAJJ,W;;cAA  
A,W;;;;;K;IADwF,gE;MAAA,yD;uBAAA,uG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAP5F,4C;MAOmF,g  
BAAS,uCAAT,C;K;IAGBb,4B;MAAE,OAAA,EAAG,W;K;IAP3E,8B;MAO8D,4BAAQ,cAAR,C;K;IAUQ,8B;MA  
AE,OAAA,EAAG,W;K;IAR3E,8B;MAQ8D,4BAAQ,gBAAR,C;K;IAM1B,8B;MAAE,S;K;IAJtC,wC;MAEgB,Q;  
MADZ,IAAI,8CAAJ,C;QACI,OAA4C,CAApC,2EAAoC,kBAAQ,QAAR,C;OAEhD,OAAO,uBAAmB,SAAnB,E  
AAyB,gBAAzB,EAAiC,QAAjC,C;K;IAGX,4B;MAYiB,Q;MAFb,YAAY,gB;MACZ,YAAY,gB;MACC,2B;MAA  
b,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,WAAL,IAAK,MAAT,C;QACN,KAAM,WAAL,IAAK,OAAT,C;;MAE  
V,OAAO,UAA S,KAAT,C;K;IAGX,+B;MAQqD,6BAAS,4BAAT,C;K;IAW0B,+G;MAAA,wC;MAAA,6B;MAAA  
yB;MAAA,0C;MAAA,4C;MAAA,0B;MAAA,kC;K;;;mDAAA,Y;;;;kCAC9D,0C;cACb,gB;;;;cAAA,IAAO,iBPy  
FkD,UOzFzD,C;gBAAA,gB;;;cACI,QAAQ,yBAAO,iBAAQ,iBAAO,KAAf,C;cACf,WAAbB,WAAP,iBAAO,C;c  
ACIB,YAAgB,IAAI,iBAAO,KAAf,GAAqB,iBAAO,aAAI,CAAJ,EAAO,IAAP,CAA5B,GAA8C,I;cAC1D,gB;8BA  
AA,iCAAM,KAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAJJ,gB;;;cAMJ,W;;;;;K;IAR+E,4D;MAAA,yD;u  
BAAA,mG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAT/E,uC;MASmE,gBAAY,kCAAZ,C;K;IAkBhC,0D;MAE/B,w  
B;QAAA,WAAGC,I;MADhC,0B;MACA,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBA Ae,iCAAS,W;MA  
Cx B,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAW,aAAS,O;QAC  
pB,IAAI,wCAAU,IAAV,MAAmB,sCAA vB,C;UACI,gBAAW,I;UACX,iBAAY,C;UACZ,M;;MAGR,iBAAY,C;K;  
8DAGhB,Y;MASW,Q;MARP,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6  
B;MACV,aAAa,a;MACb,gBAAW,I;MACX,iBAAY,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAa,EAAj  
B,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAhC5B,Y;MAAuC,yD;K;;IA2C3C,qD;MAAY,0B;MAAmC,gC;K;I  
ACJ,gF;MAAA,0D;MACnC,gBA Ae,oCAAS,W;K;iEACxB,Y;MACI,OAAO,6CAAY,aAAS,OAAR,B,C;K;oEAGX,  
Y;MACI,OAAO,aAAS,U;K;;8CAPxB,Y;MAAuC,4D;K;qDAWvC,oB;MACI,OAAO,uBAA4B,eAA5B,EAAsC,kB  
AAtC,EAAM,D,QAA nD,C;K;;IAUf,4D;MAAY,0B;MAAmC,gC;K;IACJ,8F;MAAA,wE;MACnC,gBA Ae,2CAAS,  
W;MACxB,aAAY,C;K;wEACZ,Y;MAC0C,Q;MAAtC,OAAO,oDAAY,oBAAmB,iBAAnB,EAAMB,yBAAnB,QA  
AZ,EAAyC,aAAS,OAAID,C;K;2EAGX,Y;MACI,OAAO,aAAS,U;K;;qDARxB,Y;MAAuC,mE;K;;IAkB3C,oC;M  
AAY,0B;K;IAC6C,wE;MACjD,gBA Ae,gCAAS,W;MACxB,aAAY,C;K;6DACZ,Y;MAC2C,Q;MAAvC,OAAO,iB  
AAa,oBAAmB,iBAAnB,EAAMB,yBAAnB,QAAb,EAA0C,aAAS,OAA nD,C;K;gEAGX,Y;MACI,OAAO,aAAS,U  
;K;;0CARxB,Y;MAAQD,wD;K;;IAmBzD,0D;MACI,4B;MACA,4B;MACA,4B;K;IAEuC,sE;MAAA,gD;MACnC,i  
BAAgB,gCAAU,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAAPB,EAA4B,c  
AAU,OAAtC,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;Iac3  
C,6D;MACI,0B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBA Ae,kCAAS,W;MACxB,oBAAiC,I;K  
;+DAEjC,Y;MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCA Ae,O;K;kEAG1B,Y;MACI,OA  
AO,2B;K;+EAGX,Y;MACQ,Q;MAAJ,IAAI,iEAA2B,KAA/B,C;QACI,oBAAe,I;MAEnB,OAAO,yBAAP,C;QACI

,IAAI,CAAC,aAAS,UAAAd,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;UACvB,uBAAuB,wCAAS,2CAAY,OAAZ,CAAT,C;UACvB,IAAI,gBAAiB,UAArB,C;YACI,oBAAe,gB;YACf,OAAO,I;;MAInB,OAAO,I;K;;4CA9Bf,Y;M AAuC,0D;K;;IAoC9B,6I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,4C;MAAA,kD;MAAA,gD;MAAA,wB;MAA A,yB;MAAA,kC;K;;;yDAAA,Y;;;kBAgyC,I;iCAFIC,C;cACI,sD;cAAhB,gB;;;cAAA,KAAgB,yBAAhB,C;gBA AA,gB;;;cAAgB,oC;cACZ,aAAa,6BAAU,oBAAmB,uBAAmB,EAAMb,+BAAmB,QAAV,EAAC,OAAvC,C;cAC b,gB;8BAAA,sCAAS,4BAAS,MAAT,CAAT,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;K;I ANS,0F;MAAA,yD;uBAAA,il;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IADb,wD;MACI,gBAAS,kDAAT,C;K;;;IAo ByB,qD;MACzB,0B;MACA,8B;MACA,0B;MC3TA,IAAI,ED+TQ,qBAAc,CC/TtB,CAAJ,C;QACI,cD8T2B,+CA A4C,iB;QC7TvE,MAAM,gCAAYB,OAAQ,WAAjC,C;OAFV,IAAI,EDgUQ,mBAAy,CChUpB,CAAJ,C;QACI,gB D+TyB,6CAA0C,e;QC9TnE,MAAM,gCAAYB,SAAQ,WAAjC,C;OAFV,IAAI,EDIUQ,mBAAy,iBCjUpB,CAAJ, C;QACI,gBDgUkC,0DAAuD,eAAvD,WAAmE,iB;QC/TrG,MAAM,gCAAYB,SAAQ,WAAjC,C;Q;SFDkUa,Y;MA AQ,yBAAW,iBAAx,I;K;yCAE/B,a;MAAYC,OAAI,KAAK,YAAT,GAAGB,eAAhB,GAAqC,gBAAy,eAAZ,EAAs B,oBAAa,CAAb,IAAtB,EAAsC,eAAtC,C;K;yCAC9E,a;MAAYC,OAAI,KAAK,YAAT,GAAGB,IAAhB,GAA0B,g BAAy,eAAZ,EAAsB,iBAAtB,EAakC,oBAAa,CAAb,IAAI,C,C;K;IAEzC,8D;MAAA,wC;MAEtB,gBAAe,2BAAS ,W;MACxB,gBAAe,C;K;0DAEf,Y;MAEI,OAAO,gBAAW,kCAAX,IAAYB,aAAS,UAAzC,C;QACI,aAAS,O;QAC T,qC;;K;2DAIR,Y;MACI,a;MACA,OAAQ,gBAAW,gCAAZ,IAAYB,aAAS,U;K;wDAG7C,Y;MACI,a;MACA,IA AI,iBAAy,gCAAhB,C;QACI,MAAM,6B;MACV,qC;MACA,OAAO,aAAS,O;K;;qCAvBxB,Y;MAA0B,mD;K;;IA gCA,uC;MAC1B,0B;MACA,oB;MC3WA,IAAI,ED+WQ,gBAAS,CC/WjB,CAAJ,C;QACI,cD8WsB,yCAAsC,YA AtC,M;QC7WtB,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;0CDgXV,a;MAAYC,OAAI,KAAK,YAAT,GAAGB,eAAh B,GAAqC,gBAAy,eAAZ,EAAsB,CAAtB,EAAYB,YAAzB,C;K;0CAC9E,a;MAAYC,OAAI,KAAK,YAAT,GAAG B,IAAhB,GAA0B,iBAAa,eAAb,EAAuB,CAAvB,C;K;IAE5B,gE;MACnC,YAAW,yB;MACX,gBAAe,4BAAS,W; K;yDAExB,Y;MACI,IAAI,cAAQ,CAAZ,C;QACI,MAAM,6B;MACV,6B;MACA,OAAO,aAAS,O;K;4DAGpB,Y; MACI,OAAO,YAAO,CAAP,IAAY,aAAS,U;K;;sCAZpC,Y;MAAuC,oD;K;;IAsB3C,gD;MACI,0B;MACA,4B;K;I AEuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,I AAI,aAAS,UAAb,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAV,CAAJ,C;UACI,iBAAy,C;UACZ,gBA AW,I;UACX,M;UAGR,iBAAy,C;K;8DAGhB,Y;MAMiB,Q;MALb,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAA I,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aCa,gF;MAGb,gBAAW,I;MACX,iBAAy,E;MACZ,OAAO,M;K; iEAGX,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAIC5B,Y;MAAuC,yD;K;;IA2 Cb,uC;MAC1B,0B;MACA,oB;MC5bA,IAAI,ED+bQ,gBAAS,CC/bjB,CAAJ,C;QACI,cD8bsB,yCAAsC,YAAtC,M ;QC7btB,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;0CDgcV,a;MItXO,SJsXmC,eAAQ,CAAR,I;MAAD,OAA4B,KA AK,CAAT,GAAY,yBAAZ,GAAuC,iBAAa,eAAb,EAAuB,EAAvB,C;K;0CACxG,a;MIvXO,SJuXmC,eAAQ,CAA R,I;MAAD,OAA4B,KAAK,CAAT,GAAY,yBAAZ,GAAuC,gBAAy,eAAZ,EAAsB,YAAtB,EAA6B,EAA7B,C;K; IAEjE,gE;MACnC,gBAAe,4BAAS,W;MACxB,YAAW,yB;K;2DAEX,Y;MAEI,OAAO,YAAO,CAAP,IAAY,aAA S,UAA5B,C;QACI,aAAS,O;QACT,6B;;K;yDAIR,Y;MACI,a;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,a;MA CA,OAAO,aAAS,U;K;;sCAnBxB,Y;MAAuC,oD;K;;IA6B3C,gD;MACI,0B;MACA,4B;K;IAGuC,0E;MAAA,oD; MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;gEAEnB,Y;MACI,OAAO,aAAS,UAAhB, C;QACI,WAAW,aAAS,O;QACpB,IAAI,CAAC,wCAAU,IAAV,CAAL,C;UACI,gBAAW,I;UACX,iBAAy,C;UA CZ,M;;MAGR,iBAAy,C;K;8DAGhB,Y;MAMqB,Q;MALjB,IAAI,mBAAa,EAAjB,C;QACI,a;MAEJ,IAAI,mBAA a,CAAjB,C;QACI,aCa,gF;QACb,gBAAW,I;QACX,iBAAy,C;QACZ,OAAO,M;OAEX,OAAO,aAAS,O;K;iEAG pB,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,a;MACJ,OAAO,mBAAa,CAAb,IAAkB,aAAS,U;K;;2CAIC1C,Y;MA AuC,yD;K;;IAuCN,+C;MAAC,sB;MAAiC,gC;K;0CACnE,Y;MAAuC,4BAAiB,aAAO,WAAxB,EAAoC,kBAAPC ,C;K;;IAGP,+C;MAAuE,2B;MAAtE,sB;MAAiC,gC;MACIE,kBAAuB,c;K;6CAEvB,Y;MACI,OAAO,aAAO,UAA d,C;QACI,WAAW,aAAO,O;QACIB,UAAU,mBAAy,IAAZ,C;QAEV,IAAI,eAAS,WAAI,GAAG,CAAb,C;UACI, mBAAQ,IAAR,C;UACA,M;;MAIR,W;K;;IAKgC,0D;MAAC,wC;MAAuC,kC;K;IACrC,0E;MAAA,oD;MACnC,g BAAmB,I;MACnB,iBAAqB,E;K;oEAErB,Y;MACI,gBAAe,mBAAa,EAAjB,GAAqB,+CAArB,GAA4C,2CAAa,4 BAAb,C;MACvD,iBAAgB,qBAAJ,GAAsB,CAAtB,GAA6B,C;K;8DAG7C,Y;MAMiB,Q;MALb,IAAI,iBAAy,CA AhB,C;QACI,iB;MAEJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aAAa,8D;MAEb,iBAAy,E;MACZ,O AAO,M;K;iEAGX,Y;MACI,IAAI,iBAAy,CAAhB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAxB5B,Y;MAAuC

,yD;K;;IA6B3C,kC;MAWI,OAAW,iDAAJ,GAAwC,SAAxC,GAakD,4BAAwB,SAAxB,C;K;IAeIB,uD;MAAA,q  
B;QAAE,6B;O;K;IAX7C,wC;MAWI,OAA2D,cAApD,sBAakB,YAAlB,EAAgC,qCAAhC,CAAoD,C;K;IAqBrC,i  
D;MAAA,mB;QAAE,mB;O;K;IAIB5B,gD;MAeI,OAAI,YAAJ,GACI,2BADJ,GAGI,sBAakB,+BAAIB,EAA4B,Y  
AA5B,C;K;IAER,wD;MAcI,6BAakB,YAAlB,EAAgC,YAAhC,C;K;ILxpBJ,oB;MAAA,wB;MACI,8C;K;gCAEA,  
iB;MAA4C,oCAAmB,KAAM,U;K;kCACrE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K;gFAEX,Y;MAAQ,Q;K;iC  
AC/B,Y;MAAkC,W;K;wCACIC,mB;MAAmD,Y;K;6CACnD,oB;MAAmE,OAAA,QAAS,U;K;kCAE5E,Y;MAA6  
C,kC;K;uCAE7C,Y;MAAiC,6B;K;;;IAdrC,gC;MAAA,+B;QAAA,c;OAAA,wB;K;IAkBA,oB;MAIoC,6B;K;IAEp  
C,2B;MAMmD,OAAI,QAAS,OAAT,GAAGB,CAApB,GAAGC,MAAT,QAAS,CAAhC,GAA6C,U;K;iFAEHg,yB;  
MAAA,mD;MAAA,mB;QAKwC,iB;O;KALxC,C;6FAOA,yB;MAAA,uE;MAAA,mB;QAQsD,2B;O;KARtD,C;IA  
UA,kC;MAKiE,OAAS,aAAT,QAAS,EAAa,qBAAc,YAAY,QAAS,OAARb,CAAd,CAAb,C;K;uFAEIE,yB;MAA  
A,2D;MAAA,mB;QAGgD,qB;O;KAHhD,C;IAKA,+B;MAC2D,OAAS,aAAT,QAAS,EAAa,eAAQ,YAAY,QAAS,  
OAARb,CAAR,CAAb,C;K;2FAEpE,yB;MAAA,uE;MAAA,mB;QAMwD,2B;O;KANxD,C;IAQA,iC;MAKME,OA  
AS,aAAT,QAAS,EAAa,qBAAc,YAAY,QAAS,OAARb,CAAd,CAAb,C;K;IAE5E,+B;MAMyD,OAAI,eAAJ,GAA  
qB,MAAM,OAAN,CAARb,GAAYC,U;K;IAEIG,kC;MAQI,OAAGB,gBAAT,QAAS,EAAgB,sBAAhB,C;K;sFAGp  
B,yB;MavBA,uE;MbuBA,gC;QanB8B,gBAAnB,oB;QbqCiB,aS/CxB,W;QT+CA,OS9CO,SISwC,Q;O;KbmBnD,C;  
wFA0BA,yB;Ma1CA,wE;Mb0CA,0C;QatCsC,gBAA3B,mBb4DiB,Qa5DjB,C;Qb4D2B,aS7EIC,W;QT6EA,OS5E  
O,SIGBgD,Q;O;KbsC3D,C;sFA+BA,yB;MAAA,mD;MAAA,4B;QAEkD,uCAAQ,U;O;KAF1D,C;IAIA,wC;MAAg  
D,QAAM,cAAN,C;aAC5C,C;UAD4C,OACvC,U;aACL,C;UAF4C,OAEvC,MAAM,oBAAW,OAAjB,C;gBAFuC,  
OAGpC,S;;K;IKnKZ,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IyKLA,yC;MxK4BI,IAAI,Ew  
K3BI,OAAO,CAAP,IAAY,OAAO,CxK2BvB,CAAJ,C;QACI,cwK3BI,aAAJ,GACI,yEADJ,GAGI,8C;QxKyBJ,M  
AAM,gCAAyB,OAAQ,WAAjC,C;Q;IwKnBM,mI;MAAA,mB;QAAE,wBAAiB,gCAAjB,EAA6B,YAA7B,EAAm  
C,YAANc,EAAyC,sBAAZc,EAAyD,mBAAZD,C;O;K;IAfTB,gF;MACI,oBAAoB,IAApB,EAA0B,IAA1B,C;MAC  
A,oCAAGB,6EAAhB,C;K;IAKyB,yL;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wC;MAAA,gD;MA  
AA,sD;MAAA,4D;MAAA,wB;MAAA,0B;MAAA,uB;MAAA,0B;MAAA,wB;MAAA,qB;MAAA,4B;MAAA,kC;  
K;;;2DAAA,Y;;;cACrB,4BAAiC,eAAL,uBAAK,EAAa,IAAb,C;+BACvB,0BAAO,uBAAP,I;cACV,IAAI,kBAA  
O,CAAX,C;oCACiB,iBAAa,qBAAb,C;kCACF,C;gBACD,6C;gBAAV,iB;;;sCAaa,gBAAc,qBAAd,C;gBACH,+C;  
gBAAV,gB;;;cAAA,KAAU,2BAAV,C;gBAAA,gB;;;cAAU,kC;cACN,mBAAO,WAAI,GAAJ,C;cACP,IAAI,m  
BAAO,SAAX,C;gBACI,IAAI,mBAAO,KAAP,GAAC,uBAAIB,C;kBAA0B,sBAAS,mBAAO,kBAAuB,uBAAvB,  
C;kBAA8B,gB;;;kBAAxE,gB;;;gBADJ,gB;;;cAGI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAAjB,GAA6B,iBAA  
U,mBAAV,CAANc,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cACA,mBAAO,qBAAy,uBAAZ,C;cAJX,gB;;;cAFJ,gB;  
;cASA,IAAI,iCAAJ,C;gBACI,gB;;;gBADJ,iB;;;cACI,IAAO,mBAAO,KAAd,IAAQb,uBAARb,C;gBAAA,gB;;;c  
ACI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAAjB,GAA6B,iBAAU,mBAAV,CAANc,O;kBAAA,2C;uBAAA,yB;  
cAAA,Q;;cACA,mBAAO,qBAAy,uBAAZ,C;cAFX,gB;;;cAIA,IhL4K4C,CgL5KxC,mBhL4KyC,UgL5K7C,C;gB  
AAyB,iB;gCAAA,iCAAM,mBAAN,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBAAZB,iB;;;cAjCR,W;;cA4BI,iB;;;  
cA1BJ,iB;;;cAGI,KAAU,yBAAV,C;gBAAA,iB;;;6BAAU,sB;cACN,IAAI,kBAAO,CAAX,C;gBAAgB,oCAAQ,C  
AAR,I;gBAAW,iB;;;gBAA3B,iB;;;cACA,iBAAO,WAAI,YAAJ,C;cACP,IAAI,iBAAO,KAAP,KAAe,uBAANB,C  
;gBACI,iB;gCAAA,iCAAM,iBAAN,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBADJ,iB;;;cAEI,IAAI,8BAAJ,C;gB  
AAiB,iBAAO,Q;;gBAAa,oBAAS,iBAAU,uBAAV,C;cAC9C,kBAAO,c;cAHX,iB;;;cAHJ,iB;;;cASA,IhL+LgD,Cg  
L/L5C,iBhL+L6C,UgL/LjD,C;gBACI,IAAI,qCAAKB,iBAAO,KAAP,KAAe,uBAARc,C;kBAA2C,iB;kCAAA,iCA  
AM,iBAAN,O;sBAAA,2C;2BAAA,yB;kBAAA,Q;;kBAA3C,iB;;;gBADJ,iB;;;cAdJ,W;;cAcLiB;;;cAZJ,iB;;;cAk  
CJ,W;;;K;IARCyB,sI;MAAA,yD;uBAAA,6K;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAF7B,6E;MACI,IAAI,  
CAAC,QAAS,UAAc,C;QAAyB,OAAO,2B;MACHC,OAAO,WAAkB,0EAAIB,C;K;IAwCwB,6B;MAA8B,uB;MA  
A7B,kB;MACHC,mBAA6B,C;MAC7B,eAAyB,C;K;2CAEzB,8B;MACI,+DAakB,SAAlB,EAA6B,OAA7B,EAA  
C,WAAK,KAA3C,C;MACA,mBAAiB,S;MACjB,eAAa,UAAU,SAAV,I;K;0CAGjB,iB;MACI,+DAakB,KAAIB,E  
AAyB,YAAzB,C;MAEA,OAAO,wBAAK,mBAAy,KAAZ,IAAL,C;K;qFAGY,Y;MAAQ,mB;K;;IASR,wC;MAAQ  
D,uB;MAApD,sB;MxKrDxB,IAAI,EwKuDQ,cAAc,CxKvDtB,CAAJ,C;QACI,cwKsD2B,wE;QxKrD3B,MAAM,g  
CAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EwKwDQ,cAAc,aAAO,OxKxD7B,CAAJ,C;QACI,gBwKuDqC,wFAA+E  
,aAAO,O;QxKtD3H,MAAM,gCAAyB,SAAQ,WAAjC,C;OwK2DV,kBAAuB,aAAO,O;MAC9B,oBAA8B,C;MAE

9B,sBAAYB,U;K;kFAAZB,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;uCAGA,iB;MAGW,Q;MAFP,+DAaKb,KA  
AlB,EAAYB,SAAZB,C;MAEA,OAAO,sBAmGmC,CAnG5B,iBAmG6B,GAnGV,KAmGU,IAAD,IAAa,eAnGhD,4  
D;K;kCAGX,Y;MAAe,qBAAQ,e;K;IAEgB,4D;MAAA,sC;MAAS,2B;MAC5C,eAAoB,oB;MACpB,eAAoB,4B;K;  
8DAEpB,Y;MAKgB,Q;MAJZ,IAAI,iBAAS,CAAb,C;QACI,W;;QAGA,mBAAQ,sCAAO,YAAP,4DAAR,C;QAC  
A,eAoFkC,CAPf1B,YAoF2B,GAPfB,CAoFa,IAAD,IAAa,+B;QAnF/C,mC;;K;;oCAXZ,Y;MAAuC,kD;K;2CAgBv  
C,iB;MAGIE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;MATBP,aACQ,KAAM,OAAO,GAAa,IAAK,KAAATB,G  
AAkC,UAAO,KAAM,EAAO,IAAK,KAAZ,CAAIC,GAAyD,kD;MAE7D,WAAW,IAAK,K;MAEhB,WAAW,C;M  
ACX,UAAU,iB;MAEV,OAAO,OAAO,IAAP,IAAe,MAAM,eAA5B,C;QACI,OAAO,IAAP,IAAe,wBAAO,GAAP,  
gE;QACf,mB;QACA,iB;;MAGJ,MAAM,C;MACN,OAAO,OAAO,IAAd,C;QACI,OAAO,IAAP,IAAe,wBAAO,G  
AAP,gE;QACf,mB;QACA,iB;;MAEJ,IAAI,MAAO,OAAP,GAAC,IAAK,KAAvB,C;QAA6B,OAAO,IAAK,KAAZ,  
IAAoB,I;MAEjD,OAAO,uD;K;mCAGX,Y;MACI,OAAO,qBAAQ,gBAAa,SAAb,OAAR,C;K;4CAGX,uB;MAKI,  
kBAAoD,eAAjC,mBAAy,mBAAa,CAAZB,IAA8B,CAA9B,IAAiC,EAAa,WAAb,C;MACpD,gBAAoB,sBAAC,C  
AAIB,GAA4B,UAAP,aAAO,EAAO,WAAP,CAA5B,GAAqD,qBAAQ,gBAAa,WAAb,OAAR,C;MACrE,OAAO,e  
AAW,SAAX,EAAsB,SAATB,C;K;qCAGX,mB;MAII,IAAI,aAAJ,C;QACI,MAAM,6BAAsB,qBAATB,C;OAGV,c  
A6B0C,CA7BnC,iBA6BoC,GA7BjB,SA6BiB,IAAD,IAAa,eA7BvD,IAAmC,O;MACnC,6B;K;+CAGJ,a;MxKhJA,  
IAAI,EwKoJQ,KAAK,CxKpJb,CAAJ,C;QACI,cwKmJkB,wC;QxKlJIB,MAAM,gCAAyB,OAAQ,WAAjC,C;OAF  
V,IAAI,EwKqJQ,KAAK,SxKrJb,CAAJ,C;QACI,gBwKoJqB,wEAA8D,S;QxKnJnF,MAAM,gCAAyB,SAAQ,WA  
AjC,C;OwKqJN,IAAI,IAAI,CAAR,C;QACI,YAAy,iB;QACZ,UAgBsC,CAhB5B,KAgB6B,GAhBf,CAGBe,IAAD,  
IAAa,e;QAdnD,IAAI,QAAQ,GAAZ,C;UACW,OAAP,aAAO,EAAK,IAAL,EAAW,KAAX,EAAkB,eAAIB,C;UA  
CA,OAAP,aAAO,EAAK,IAAL,EAAW,CAAX,EAAc,GAAd,C;;UAEA,OAAP,aAAO,EAAK,IAAL,EAAW,KAA  
X,EAAkB,GAAIB,C;;QAGX,oBAAa,G;QACb,wBAAQ,CAAR,I;Q;qCAKR,wB;MAC8C,QAAC,YAAO,CAAP,I  
AAD,IAAa,e;K;;IA9G3D,0C;MAAA,oD;MAA6B,uBAAK,gBAAMb,QAAnB,OAAL,EAAmC,CAAnC,C;MAA7  
B,Y;K;ICvFj,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,C  
AAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OrL+B4E,0BqL/BrE,kBAAM,CAAN,CrL0Q2B,KAAL,GA  
AiB,GA3O8B,EqL/B1D,KrL0QgB,KAAL,GAAiB,GA3O8B,CqL/BrE,IAAP,C;UACI,a;;QACJ,OrL6B4E,0BqL7Br  
E,kBAAM,CAAN,CrLwQ2B,KAAL,GAAiB,GA3O8B,EqL7B1D,KrLwQgB,KAAL,GAAiB,GA3O8B,CqL7BrE,I  
AAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,k  
BAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,  
uC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CA  
AJ,C;QACI,UAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,  
UAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,k  
BAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OnLM6E,0B  
mLnTE,kBAAM,CAAN,CnL0O2B,KAAL,GAAiB,KApO+B,EmLn3D,KnL0OgB,KAAL,GAAiB,KApO+B,CmL  
NtE,IAAP,C;UACI,a;;QACJ,OnLI6E,0BmLjTE,kBAAM,CAAN,CnLwO2B,KAAL,GAAiB,KApO+B,EmLj3D,Kn  
LwOgB,KAAL,GAAiB,KApO+B,CmLjTE,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,  
CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UA  
CA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;M  
ACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAA  
vB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,  
QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,  
OAAO,KAAK,CAAZ,C;QACI,OpLnB8D,YoLmBvD,kBAAM,CAAN,CpLnBwE,KAAjB,EoLmB5C,KpLnByE,K  
AA7B,CoLmBvD,IAAP,C;UACI,a;;QACJ,OpLrB8D,YoLqBvD,kBAAM,CAAN,CpLrBwE,KAAjB,EoLqB5C,Kp  
LrByE,KAA7B,CoLqBvD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UAC  
V,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;  
;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAA  
O,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IA  
AI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR  
,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,C

AAZ,C;QACI,OpK5C+D,aoK4CxD,kBAAM,CAAN,CpK5C0E,KAAiB,EoK4C7C,KpK5C2E,KAA9B,CoK4CxD,IAAP,C;UACI,a;;QACJ,OpK9C+D,aoK8CxD,kBAAM,CAAN,CpK9C0E,KAAiB,EoK8C7C,KpK9C2E,KAA9B,C oK8CxD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN, EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C; K;IAGX,yC;MAGI,YAAy,AAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IA AP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ, C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAKR,gD;MAI6E,UAAU,KAAV,EAAiB,SAAjB,E AA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA 5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6 E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IvK9I7E,0C;MF0BI,IAAI,EEjBI,SAAU,OA AV,GAAiB,CfibrB,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;OEIBV,OAAO,oBAAoB ,CAApB,EAAuB,CAAvB,EAA0B,SAA1B,C;K;IAGX,8C;MACe,Q;MAAX,wBAAW,SAAx,gB;QAAW,SAAA,S AAX,M;QACI,SAAS,GAAG,CAAH,C;QACT,SAAS,GAAG,CAAH,C;QACT,WAAW,cAAc,EAAAd,EAAkB,EAA lB,C;QACX,IAAI,SAAQ,CAAZ,C;UAAe,OAAO,I;;MAE1B,OAAO,C;K;sGAGX,yB;MAAA,8D;MAAA,iC;QASI ,OAAO,cAAc,SAAS,CAAT,CAAd,EAA2B,SAAS,CAAT,CAA3B,C;O;KATX,C;sGAYA,sC;MASI,OAAO,UAA W,SAAQ,SAAS,CAAT,CAAR,EAAqB,SAAS,CAAT,CAArB,C;K;IAAtB,6B;MAWY,Q;MALR,IAAI,MAAM,CA AV,C;QAAa,OAAO,C;MACpB,IAAI,SAAJ,C;QAAe,OAAO,E;MACtB,IAAI,SAAJ,C;QAAe,OAAO,C;MAGtB,O AA8B,iBAAtB,mDAAsB,EAAU,CAAV,C;K;IAaZ,6C;MAAA,uB;QAAU,2BAAoB,CAApB,EAAuB,CAAvB,EA A0B,iBA1B,C;O;K;IAVhC,8B;MF7CI,IAAI,EEsDI,SAAU,OAAV,GAAiB,CfTDrB,CAAJ,C;QACI,cAda,qB;QA eb,MAAM,gCAAYB,OAAQ,WAAjC,C;OEqDV,OAAO,eAAW,2BAAX,C;K;0FAIX,yB;MAAA,sC;MAAA,oC;M AAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,C AAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MAPf,2B;QAOI,sBAAW,0BAAX,C;O;KAPJ,C;0FASA, yB;MAAA,oC;MAQe,gE;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAIC,OA1Dd,UAAW,SAAQ,SA0 DW,CA1DX,CAAR,EAAqB,SA0DC,CA1DD,CAArB,C;S;O;MAkDtB,uC;QAQI,sBAAW,sCAAX,C;O;KARJ,C;4 GAUA,yB;MAAA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB, OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MAPf,2B;QAOI,sBAA W,oCAAX,C;O;KAPJ,C;8GASA,yB;MAAA,oC;MAUe,0E;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;U AAIC,OA/Ed,UAAW,SAAQ,SA+EW,CA/EX,CAAR,EAAqB,SA+EC,CA/ED,CAArB,C;S;O;MAqEtB,uC;QAUI,s BAAW,gDAAX,C;O;KAVJ,C;kFAyA,yB;MAAA,sC;MAAA,oC;MAAA,oBAQe,yB;QA9Gf,8D;eA8Ge,yC;UAA A,uB;YACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CAAX,C;YACIC,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAA A,OAA0B,e;;cAAqB,eAAsB,gB;cAArE,OAvgG,cAAc,SAuG8C,CAvG9C,CAAd,EAA2B,SAuGoC,CAvGpC,CA A3B,C;;YAsGH,W;W;S;OADO,C;MARf,sC;QAQI,sBAAW,kCAAX,C;O;KARJ,C;oFAaA,yB;MAAA,oC;MAQe, 0E;QAAA,uB;UACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CAAX,C;UACIC,Q;UAAA,IAAI,oBAAmB,CAAvB ,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;YAAjF,OAxGG,UAAW,SAAQ,SAwGyC,CaxGz C,CAAR,EAAqB,SAwG+B,CaxG/B,CAArB,C;;UAuGd,W;S;O;MATR,kD;QAQI,sBAAW,8CAAX,C;O;KARJ,C; sGAaA,yB;MAAA,sC;MAAA,oC;MAAA,8BAQe,yB;QAxIf,8D;eAwIe,mD;UAAA,uB;YACP,sBAAsB,qBAAsB, SAAQ,CAAR,EAAW,CAAX,C;YAC5C,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,g B;cAArE,OAjIG,cAAc,SAiI8C,CAjI9C,CAAd,EAA2B,SAiIoC,CAjIpC,CAA3B,C;;YAgIH,W;W;S;OADO,C;MA Rf,sC;QAQI,sBAAW,4CAAX,C;O;KARJ,C;wGAaA,yB;MAAA,oC;MAQe,8F;QAAA,uB;UACP,sBAAsB,qBAAs B,SAAQ,CAAR,EAAW,CAAX,C;UAC5C,Q;UAAA,IAAI,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAA sB,kB;YAAtB,eAAkC,gB;YAAjF,OAIG,UAAW,SAAQ,SAkIyC,CAIIZC,CAAR,EAAqB,SAkI+B,CAII/B,CAArB ,C;;UAiId,W;S;O;MATR,kD;QAQI,sBAAW,wDAAX,C;O;KARJ,C;kGAcA,yB;MAAA,oC;MAOe,wE;QAAA,uB; UACP,sBAAsB,mBAAoB,SAAQ,CAAR,EAAW,CAAX,C;UAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,GA A+C,mBAAW,CAAX,EAAc,CAAd,C;S;O;MATvD,wC;QAOI,sBAAW,4CAAX,C;O;KAPJ,C;IAmBe,oD;MAAA, uB;QACP,sBAAsB,SAAU,SAAQ,CAAR,EAAW,CAAX,C;QAAhC,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,GA AA+C,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IATIE,uC;MAOI,sBAAW,kCAAX,C;K;IAYc,wE;MAAA,u B;QACV,sBAAsB,mBAAoB,SAAQ,CAAR,EAAW,CAAX,C;QAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B, GAA+C,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IATIE,+C;MAOI,sBAAc,4CAAd,C;K;IAaW,+C;MAAA,u



B;QAEH,UAAM,CAAN,C;UADJ,OACe,C;aACX,c;UAFJ,OAEiB,E;aACb,c;UAHJ,OAGiB,C;;UAHjB,OAIY,kB  
AAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,gC;MAOI,sBAAW,6BAAX,C;K;4FASJ,yB;MAAA,4D;MAAA  
,wD;MAAA,mB;QAOqE,kBAAW,cAAAX,C;O;KAPrE,C;IAgBe,8C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,O  
ACe,C;aACX,c;UAFJ,OAEiB,C;aACb,c;UAHJ,OAGiB,E;;UAHjB,OAIY,kBAAW,SAAQ,CAAR,EAAW,CAAX,  
C;O;K;IAZ/B,+B;MAOI,sBAAW,4BAAX,C;K;0FASJ,yB;MAAA,4D;MAAA,sD;MAAA,mB;QAOoE,iBAAU,cA  
AV,C;O;KAPpE,C;IASA,wB;MAK4F,Q;MAA7B,OAA6B,4F;K;IAE5F,wB;MAK4F,Q;MAA7B,OAA6B,4F;K;IA  
E5F,gC;MAM+D,IAEJ,IAFI,EAGJ,M;MAFvD,kBAD2D,SAC3D,sB;QADqD,OAC5B,SAAK,W;WAC9B,WAF2D  
,SAE3D,wC;QAFqD,OAEe,4F;WACvD,WAH2D,SAG3D,wC;QAHqD,OAGE,gG;;QAHF,OAI7C,uBAAmB,SAA  
nB,C;K;IAIuB,wC;MAAC,4B;K;2CACCh,gB;MAAwC,OAAA,eAAW,SAAQ,CAAR,EAAW,CAAX,C;K;4CACn  
D,Y;MACgC,sB;K;;IAGpC,kC;MAAA,sC;K;+CACI,gB;MAAoE,OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDAC  
tE,Y;MAC8C,2C;K;;IAHID,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;IAMA,kC;MAAA,sC;K;+CACI,gB;MAAoE,  
OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDACtE,Y;MAC8C,2C;K;;IAHID,8C;MAAA,6C;QAAA,4B;OAAA,sC  
;K;8EwKjTA,4B;MAUI,OAAK,iBAAL,SAAK,EAAU,KAAV,C;K;ICTT,iC;K;;;oDA2DI,0C;MAiB+D,oB;QAAA  
,2C;aAjB/D,kG;K;;IAoBJ,uC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,qC;MAAA,wC;O;MASI,4E;MAMA,8E;M  
AOA,4E;MAOA,kE;K;;IApBA,mD;MAAA,2B;MAAA,2C;K;;IAMA,oD;MAAA,2B;MAAA,4C;K;;IAOA,mD;M  
AAA,2B;MAAA,2C;K;;IAOA,8C;MAAA,2B;MAAA,sC;K;;IA7BJ,iC;MAAA,+K;K;;IAAA,sC;MAAA,a;aAAA,c;  
UAAA,gD;aAAA,e;UAAA,iD;aAAA,c;UAAA,gD;aAAA,S;UAAA,2C;gBAAA,oE;;K;;oFAqCA,mB;K;;;;;;;  
;;I5HiBiD,gD;MAAA,oB;QACzC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;QACX,cAAM,IAAN,C;QADA,OA  
EA,IAAK,a;O;K;;;IAthb,+B;K;;iFAUA,yB;MAAA,4B;MAAA,mC;QAMI,6BDgDQ,WChDkB,KDgDIB,CChDR,  
C;O;KANJ,C;2GAQA,yB;MAAA,4B;MDgDQ,kD;MChDR,uC;QAOI,6BDgDQ,WAAO,cChDW,SDgDX,CAAP,C  
ChDR,C;O;KAPI,C;+FAUA,yB;MAAA,kC;MAAA,mD;MAAA,yE;QASI,sC;QAAA,4C;O;MATJ,iGAWY,Y;QA  
AQ,2B;OAXpB,E;MAAA,0DAaQ,kB;QACI,wBAAW,MAAX,C;O;MAdZ,sF;MAAA,sC;QASI,0D;O;KATJ,C;IAi  
BA,gD;MAaI,4BAA0D,YAAzC,wCAA6B,UAA7B,CAAyC,CAA1D,EAAyE,yBAAzE,C;K;IAEJ,4D;MAcI,4BAA  
oE,YAAAnD,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAAPe,EAAMF,yBAAAnF,C;K;IAEJ,+C;MAU6C,YAAz  
C,wCAA6B,UAA7B,CAAyC,CAtEzC,oBDgDQ,WcBsD,kBDtBtD,CChDR,C;K;IAyEJ,2D;MAWuD,YAAAnD,0C  
AA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAPFnD,oBDgDQ,WCoCgE,kBDpChE,CChDR,C;K;IAuFJ,+C;MAYI,  
OAA6C,8BAAAtC,c;K;8EAZX,yB;MAAA,oE;MAAA,6E;MAYiD,gD;QAAA,oB;UACzC,WAAW,sBAAmB,YAA  
F,CAAE,CAAnB,C;UACX,cAAM,IAAN,C;UADA,OAEA,IAAK,a;S;O;MAfb,sC;QAYW,mBAAsC,8BAAAtC,6B;  
QAAP,OAAO,kD;O;KAZX,C;qGA0BI,yB;MAAA,2D;MAAA,mB;QACI,MAAM,6BAAoB,0BAApB,C;O;KADV  
,C;;M6HzIA,yC;;IAAA,uC;MAAA,2C;K;;;IAAA,mD;MAAA,kD;QAAA,iC;OAAA,2C;K;+EAKBA,wB;K;oDAaA  
,e;MAK2C,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAR,GAA  
4B,cAAI,OAAJ,GAAL,iBAAQ,IAAR,CAAJ,yCAA5B,GAAyD,I;OAGpE,OAAW,8CAA4B,GAAhC,GAAqC,8EA  
ArC,GAAoD,I;K;yDAI/D,e;MAGI,IAAI,+CAAJ,C;QACI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAJ,IAA0B,GAA  
Li,iBAAQ,IAAR,CAAJ,QAA9B,GAAyD,mCAAzD,GAAoF,I;OAE/F,OAAW,8CAA4B,GAAhC,GAAqC,mCAArC  
,GAAgE,I;K;;;ICtChD,oD;MACf,cAAc,GAAl,kBAAS,OAAQ,IAAjB,C;MACIB,IAAI,YAAY,mCAAhB,C;QAD  
A,OACuC,O;;QAEEnC,kBAAkB,oBAAQ,yCAAR,C;QACIB,IAAI,mBAAJ,C;UAJJ,OAI6B,oBAAgB,OAAhB,EA  
AyB,OAAzB,C;;UACrB,WAAW,OAAQ,kBAAS,yCAAT,C;UAL3B,OAMY,SAAS,mCAAb,GAAoC,oBAAgB,O  
AAhB,EAAyB,WAAzB,CAAPC,GACI,oBAAgB,oBAAgB,IAAhB,EAA5B,OAAtB,CAAhB,EAAGD,WAAhD,C;;  
K;8CAdxB,mB;MAKI,OAAI,YAAY,mCAAhB,GAAuC,IAAvC,GACI,OAAQ,cAAK,IAAL,EAAW,4BAAX,C;K;  
;;;;qDAiCZ,e;MAEyB,Q;MADrB,OACI,OAAA,IAAK,IAAL,EAAy,GAAZ,CAAJ,GAAqB,0EAArB,GAAoC,I;K;  
sDAExC,8B;MACI,iBAAU,OAAV,EAAmB,IAAnB,C;K;0DAEJ,e;MACI,OAAI,OAAA,IAAK,IAAL,EAAy,GAA  
Z,CAAJ,GAAqB,mCAArB,GAAgD,I;K;;IC1DP,8C;MAAC,wB;K;kFAAA,Y;MAAA,yB;K;;IAiCe,wD;MAEjE,k  
C;MAEA,4BAAqC,mDAAJ,GAAkD,OAAQ,qBAA1D,GAA0E,O;K;4DAE3G,mB;MAA6C,+BAAS,OAAT,C;K;6  
DAC7C,e;MAA8C,eAAQ,IAAR,IAAgB,8BAAE,G;K;;IAGjF,+C;MAW2C,IAAI,IAAJ,EAGV,M;MAL7B,IAAI,+  
CAAJ,C;QAEI,OAAW,GAAl,kBAAS,SAAK,IAAd,CAAR,GAA4B,cAAI,OAAJ,GAAL,iBAAQ,SAAR,CAAJ,yC  
AA5B,GAAyD,I;OAGpE,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mFAAtB,GAAqC,I;K;IAGhD,6C;MAUI,I  
AAI,+CAAJ,C;QACI,OAAW,GAAl,kBAAS,SAAK,IAAd,CAAJ,IAA0B,GAAL,iBAAQ,SAAR,CAAJ,QAA9B,GA  
AyD,mCAAzD,GAAoF,S;OAE/F,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mCAAtB,GAAiD,S;K;IAG5D,iC;

MAAA,qC;MAKI,4B;K;oDACA,Y;MAAiC,0C;K;kDAEjC,e;MAAyD,W;K;mDACzD,8B;MAA4E,c;K;mDAC5E,mB;MAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAyC,8B;K;;;IAb7C,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IAqB8B,wC;MAC1B,kB;MACA,wB;K;4CAGA,e;MAGQ,Q;MAFJ,UAAU,I;MACV,OAAO,IAAP,C;QACI,YAAA,GAAl,UAAJ,aAAY,GAAZ,W;UAAwB,W;SACxB,WAAW,GAAl,O;QACf,IAAl,oCAAJ,C;UACI,MAAM,I;UAEN,OAAO,iBAAK,GAAL,C;;;K;6CAKnB,8B;MACI,iBAAU,WAAK,cAAK,OAAAL,EAAc,SAAd,CAAf,EAAyC,cAAzC,C;K;iDAEJ,e;UAGW,I;MAFP,+BAAQ,GAAR,U;QAAoB,OAAO,W;OAC3B,cAAc,WAAK,kBAAS,GAAT,C;MAEf,gBAAy,WAAZ,C;QAAoB,W;WACpB,gBAAy,mCAAZ,C;QAAqC,qB;;QAC7B,2BAAgB,OAAhB,EAAyB,cAAzB,C;MAHZ,W;K;uCAOJ,Y;MAIc,IAAI,IAAJ,Q;MAHV,UAAU,I;MACV,WAAW,C;MACX,OAAO,IAAP,C;QACU,uBAAI,OAAJ,GAAl,OAAJ,gC;QAAA,mB;UAAgC,OAAO,I;SAA7C,MAAM,M;QACN,mB;;K;2CAIR,mB;MACI,+BAAI,OAAQ,IAAZ,GAAoB,OAApB,C;K;8CAEJ,mB;MAQ4B,Q;MAPxB,UAAU,O;MACV,OAAO,IAAP,C;QACI,IAAI,CAAC,gBAAS,GAAl,UAAb,CAAL,C;UAA4B,OA AO,K;QACnC,WAAW,GAAl,O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;UAEN,OAAO,gBAAS,0EAAT,C;;;K;uCAKnB,iB;MACI,gBAAS,KAAT,KAakB,yCAA4B,KAAM,SAAN,KAAGB,aAA5C,IAAsD,KAAM,eAAY,IAAZ,C AA9E,C;K;yCAEJ,Y;MAA+B,OAAK,SAAL,WAAK,CAAL,GAA0B,SAAR,cAAQ,CAA1B,I;K;IAGZ,uD;MACX ,OAAI,G3JyHoC,YAAU,C2JzHID,GAAMB,OAAQ,WAA3B,GAA6C,GAAF,UAAQ,O;K;yCAF3D,Y;MACI,aAA M,kBAAK,EAAL,EAAS,+BAAT,CAAN,GAEl,G;K;IAMO,8E;MAAA,6B;QAAyB,Q;QAAT,iBAAS,sBAAT,EA AS,8BAAT,UAAoB,O;QAAQ,W;O;K;+CAJ3D,Y;MAOsB,Q;MANIB,QAAQ,a;MACR,eAAe,gBAA+B,CAA/B,O ;MACf,gBAAy,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;M9KtFJ,IAAI,E8KuFM,YAAS,C9KvFf,CA AJ,C;QACI,cAdW,e;QAEX,MAAM,6BAAsB,OAAQ,WAA9B,C;O8KuFN,OAAO,+BAAW,qDAAX,C;K;IAGa,8 C;MACpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0C;OAAA,oD;K; yDAIA,Y;MAA0C,gBAAT,a;M5Lm9YrB,Q;MADhB,kB4Ll9YmD,mC;M5Lm9YnD,wBAAgB,SAAhB,gB;QAAg B,cAAA,SAAhB,M;QAAsB,cAAwB,yBAAa,OAAb,C;;M4Ln9YT,O5Lo9Y9B,W;K;;;I6LtoZX,oE;MA4BI,MAA M,wBAAoB,sEAApB,C;K;8GA5BV,yB;MAAA,2D;MAAA,sC;QA4BI,MAAM,6BAAoB,sEAApB,C;O;KA5BV, C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAK0C,oG; MAAqB,gF;MAAW,4E;K;;IAAhC,+D;MAAA,gC;MAAA,uD;K;;IAAqB,qD;MAAA,gC;MAAA,6C;K;;IAAW,m D;MAAA,gC;MAAA,2C;K;;IAL1E,sC;MAAA,sJ;K;;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aAAA,W;UAAA,k D;aAAA,S;UAAA,gD;gBAAA,qF;;K;;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAA uB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,GAAsB,KAAS,C; O;KAHrF,C;6EAKA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;6 EAKA,yB;MAAA,0B;MAAA,4B;QAGqC,OAAqB,OAAP,CAAR,SAAE,C;O;KAH1D,C;+EAMA,yB;MAAA,4B; MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4B;MAAA,mC; QAGwD,OAAgC,QAA1B,SAAL,GAAsB,KAAS,C;O;KAHxF,C;+EAKA,yB;MAAA,4B;MAAA,mC;QAGyD,OA AiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;+EAKA,yB;MAAA,4B;MAAA,4B;QAGuC,OAAqB,QAAP,C AAR,SAAE,C;O;KAH5D,C;ICpCA,qC;K;;ICAA,mB;K;;IAOA,iB;K;;IAOA,2C;K;;IAOA,wB;K;;IAQA,0B;K;;IA OA,sB;K;;IAOA,4B;K;;IAOA,6C;K;;IA+BuC,wE;MAEnC,uB;QAAA,UAAsB,E;MACTb,qB;QAAA,8B;MACA,2 B;QAAA,qE;MACA,yB;QAAA,YAAqB,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0B;K;;IAGJ,iD; MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;;IAFA,iE;MAAA ,qC;MAAA,yD;K;;IACA,iE;MAAA,qC;MAAA,yD;K;;IACA,4D;MAAA,qC;MAAA,oD;K;;IAPJ,2C;MAAA,6K;K ;IAAA,gD;MAAA,a;aAAA,kB;UAAA,8D;aAAA,kB;UAAA,8D;aAAA,a;UAAA,yD;gBAAA,6E;;K;;IAUA,wB;K ;ICjGA,qB;MAAA,yB;K;0CAII,Y;MAO6D,uB;K;2HAE7D,yB;MAAA,+D;MAAA,kC;MAAA,0F;MAAA,6F;MA AA,4E;QAUI,wC;QAAS,2C;O;MAVb,mEAWQ,wC;QAA6E,sBAAS,QAAT,EAAMb,QAANb,EAA6B,QAA7B,C ;O;MAXrF,oG;MAAA,yC;QAUI,wDAA+B,YAA/B,C;O;KAVJ,C;uHAcA,yB;MAAA,+D;MAAA,kC;MAAA,wF; MAAA,yF;MAAA,0E;QAcI,wC;QAAS,2C;O;MADB,kEAEQ,wC;QAAuF,6BAAS,QAAT,EAAMb,QAANb,EAA6 B,QAA7B,C;O;MAf/F,kG;MAAA,yC;QAcI,sDAA+B,YAA/B,C;O;KADJ,C;;;IA3BJ,iC;MAAA,gC;QAAA,e;OAA A,yB;K;IAGDiC,sB;MAC7B,eAAwB,I;K;4CAExB,6B;MACW,Q;MAAA,mB;MAAA,iB;QAAS,MAAM,6BAAsB ,cAAY,QAAS,aAArB,uCAAtB,C;OAAtB,OAAO,I;K;4CAGX,oC;MACI,eAAa,K;K;;;kDC9CjB,6B;;K;;;;IEA+ CA,6B;;K;;ICrDuC,0C;MACvC,uBAAoB,Y;K;wDAEPb,wC;MAM6F,W;K;uDAE7F,wC;K;oDAMA,6B;MACI,O AAO,oB;K;oDAGX,oC;MACI,eAAe,IAAK,gB;MACpB,IAAI,CAAC,0BAAa,QAAb,EAAuB,QAAvB,EAAiC,KA

AjC,CAAL,C;QACI,M;OAEJ,uBAAa,K;MACb,yBAAY,QAAZ,EAAsB,QAAtB,EAAgC,KAAhC,C;K;;4EC9BR,wC;MAqBI,OAAO,e;K;4EAGX,+C;MAuBI,cAAI,KAAJ,C;K;4EAIJ,wC;MAmBI,OAAO,cAAI,OAAJ,C;K;4EAGX,+C;MAqBI,cAAI,OAAJ,EAAa,KAAb,C;K;IC/FJ,kB;MA6PI,4B;K;+BAtoA,Y;MAOiC,6BAAS,EAAT,C;K;uC AEjC,iB;MAW2C,4BAAQ,CAAR,EAAW,KAAx,C;K;uCAE3C,uB;MAakB,Q;MAHd,iBAAiB,IAAjB,EAAuB,KAAvB,C;MACA,QAAQ,QAAQ,IAAR,I;MACR,IAAI,IAAI,CAAJ,IAAS,MAAK,WAAIB,C;QACc,IAAI,MAAM,CAAC,CAAD,IAAN,OAAy,CAAhB,C;UACN,eAAe,SAAS,CAAT,C;UACf,6BAAS,QAAT,C;;UAEA,K;;YAEI, WAAW,cAAU,KAAK,C;YAC1B,IAAI,OAAO,C;;UACN,gBAAO,CAAP,IAAY,CAAZ,GAAgB,CAAhB,SAAqB, CAArB,C;UACT,Q;;QATJ,c;QAWA,OAAO,OAAO,GAAP,I;;QAEP,OAAO,IAAP,C;UACI,YAAU,c;;UACV,IAA W,IAAP,qBAAkB,KAAtB,C;YAA6B,OAAO,K;;K;gCAKhD,Y;MAOmC,OAAU,oBAAV,cAAU,CAAS,WAAI,EAAJ,CAAnB,yBAA6B,cAA7B,E;K;wCAEnC,iB;MAW8C,iCAAy,KAAZ,C;K;wCAE9C,uB;MAiBkB,Q;MAPd,m BAAiB,IAAjB,EAAuB,KAAvB,C;MACA,QAAQ,eAAQ,IAAR,C;MACR,IAAI,eAAI,CAAR,C;QACI,O;QACA,IAAI,aAAO,CAAD,aAAN,GAAY,CAAZ,CAAJ,C;UACI,WAAW,CAAE,Q;UACb,YAAa,qBAAO,EAAP,CAAW, Q;UAEpB,aAAQ,CAAR,C;YACI,eAAe,SAAS,IAAT,C;YAEf,OAAmB,oBAAAnB,sBAAS,QAAT,CAAmB,CAAn B,iB;iBAEJ,cAAS,CAAT,C;YAEI,OAAU,oBAAV,cAAU,CAAV,iB;;YAEA,iBAAe,SAAS,KAAAT,C;YACf,OAA mB,oBAAAnB,sBAAS,UAAT,CAAmB,CAAS,WAAI,EAAJ,CAA5B,KAAiD,oBAAV,cAAU,CAAV,iBAAvC,C;;U AXR,U;;UAeA,K;;YAEI,WAAW,eAAW,oBAAK,CAAL,C;YACtB,IAAI,YAAO,CAAP,C;;UACC,sBAAO,CAAP ,MAAY,+BAAI,CAAJ,EAAZ,eAAqB,CAArB,C;UACT,MAAM,C;;QAEV,OAAO,SAAO,GAAP,C;;QAEP,OAA O,IAAP,C;UACI,YAAU,e;UACV,IAAW,IAAP,0CAakB,KAAIB,CAAJ,C;YAA6B,OAAO,K;;K;mCAKhD,Y;M AKyC,6BAAS,CAAT,MAAe,C;K;kCAExD,Y;MAKuC,uBAAgB,sBAAS,EAAT,CAAhB,EAA8B,sBAAS,EAAT, CAA9B,C;K;0CAEvC,iB;MASoD,+BAAW,GAAX,EAAGB,KAAhB,C;K;0CAEpD,uB;MAcY,Q;MAFR,mBAAiB ,IAAjB,EAAuB,KAAvB,C;MACA,WAAW,QAAQ,I;MACX,IAAS,WAAI,IAAK,CAAL,IAA0B,SAAL,IAAK,CA AIB,IAA8C,SAAN,KAAAM,CAALD,C;QACJ,SAAS,qBAAgB,QAAQ,CAAR,GAAY,OAAO,CAAnC,C;QACT,cA AO,EAAP,GAAY,E;;QAEZ,cAAO,oBAAe,I;;MAJ1B,Y;MAMA,OAAW,KAAK,KAAAT,GAASB,SAAN,KAAAM,C AAtB,GAAS,C;K;iCAGjD,Y;MAKqC,6BAAS,EAAT,IAA0B,Q;K;IAWK,oF;MAAA,mB;QAAE,uBAAa,iBAAb, sBAAqC,eAArC,+BAAqE,aAAM,OAA3E,M;O;K;iDATtE,qC;MvLjLA,IAAI,EUl0LqB,CAAb,8BAAgB,KAAAM, OvL1L9B,GuL0LiD,CAAX,0BAAc,KAAAM,OvL1L1D,GuL0LsC,KvL1LtC,CAAJ,C;QACI,cuLyLgE,kDvLzLID,E ;QACd,MAAM,gCAAYB,OAAQ,WAAjC,C;OAFV,IAAI,EUl2LQ,aAAa,OvL3LrB,CAAJ,C;QACI,gBuL0LgC,mF ;QvLzLhC,MAAM,gCAAYB,SAAQ,WAAjC,C;OuL2LN,YAAy,CAAC,UAAU,SAAV,IAAD,IAAwB,CAAxB,I; MAEZ,mBAAe,SAAf,C;MpLzEJ,iBAAc,CAAd,UoL0EW,KpL1EX,U;QoL2EQ,QAAQ,c;QACR,MAAM,UAAN,IAAoB,OAAF,CAAE,C;QACpB,MAAM,aAAW,CAAX,IAAN,IAAgC,OAAV,CAAE,KAAK,CAAG,C;QACChC,MAAM,aAAW,CAAX,IAAN,IAAiC,OAAx,CAAE,KAAK,EAAL,C;QACjC,0BAAy,CAAZ,I;;MAGJ,gBAAgB,UAAU,UAAV,I;MACHB,SAAS,sBAAS, YAAy,CAAZ,IAAT,C;MACT,aAAU,CAAV,MAAkB,SAAIB,M;QACI,MAAM,aAAW,CAAX,IAAN,IAAqC,OA Af,EAAG,MAAK,IAAI,CAAJ,IAAL,CAAY,C;;MAGzC,OAAO,K;K;yCACX,uD;MAvB4C,yB;QAAA,YAAiB,C; MAAG,uB;QAAA,UAAe,KAAAM,O;ARrF,0H;K;yCAiCa,iB;MAOyD,8BAAU,KAAV,EAAiB,CAAjB,EAAoB, KAAAM,OAAIB,C;K;yCAEzD,gB;MAKkD,8BAAU,cAAU,IAAV,CAAV,C;K;IAGID,0B;MAAA,8B;MAO2B,iB; MACvB,uBAAoC,uB;K;IAEpC,qC;MAAA,yC;MACI,4B;K;wDAEA,Y;MAAiC,mC;K;;IAHrC,iD;MAAA,gD;Q AAA,+B;OAAA,yC;K;8CAMA,Y;MAAkC,8C;K;gDAEIC,oB;MAA4C,OAAA,oBAAc,kBAAS,QAAT,C;K;uCAC 1D,Y;MAA8B,OAAA,oBAAc,U;K;+CAC5C,iB;MAAwC,OAAA,oBAAc,iBAAQ,KAAAR,C;K;+CACtD,uB;MAA mD,OAAA,oBAAc,iBAAQ,IAAR,EAAC,KAAAD,C;K;wCAEjE,Y;MAAGC,OAAA,oBAAc,W;K;gDAC9C,iB;MAA 2C,OAAA,oBAAc,kBAAS,KAAAT,C;K;gDACzD,uB;MAAuD,OAAA,oBAAc,kBAAS,IAAT,EAAe,KAAf,C;K;2C AErE,Y;MAAsC,OAAA,oBAAc,c;K;0CAEpD,Y;MAAoC,OAAA,oBAAc,a;K;kDACID,iB;MAAiD,OAAA,oBAA c,oBAAW,KAAx,C;K;kDAC/D,uB;MAA+D,OAAA,oBAAc,oBAAW,IAAX,EAAiB,KAAjB,C;K;yCAE7E,Y;MA AkC,OAAA,oBAAc,Y;K;iDAEhD,iB;MAAsD,OAAA,oBAAc,mBAAU,KAAV,C;K;iDACpE,gB;MAA+C,OAAA ,oBAAc,mBAAU,IAAV,C;K;yDAC7D,qC;MACI,OAAA,oBAAc,mBAAU,KAAV,EAAiB,SAAjB,EAA4B,OAA5 B,C;K;;IAiCtB,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;IA0CJ,wB;MAAuC,yBAAa,IAAb,EAAmB,IAAK,IAAL,E AA5B,C;K;IAEvC,wB;MAAwC,yBAAa,IAAK,QAAIB,EAA2B,IAAK,YAAI,EAAJ,CAAQ,QAAxC,C;K;IAGxC, mC;MAUI,IAAA,KAAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAAM,KAA

N,GAAa,UAAb,C;QAF8C,OAeHb,0BAAQ,KAAM,MAAd,EAAqB,KAAM,KAAN,GAAa,CAAb,IAArB,C;WAC  
9B,IAAA,KAAM,MAAN,GAAC,WAAd,C;QAH8C,OAGf,0BAAQ,KAAM,MAAN,GAAC,CAAd,IAAR,EAAYB,  
KAAM,KAA/B,IAAuC,CAAvc,I;:QAHe,OAIc,mB;K;IAGZ,oC;MAUI,IAAA,KAAM,UAAN,C;QAAMB,MAA  
M,gCAAYB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAAN,+C;QAFiD,OAeIB,2BAAS,KAAM,MAAf,EAAs  
B,KAAM,KAAN,yBAAa,CAAb,EAAtB,C;WAC/B,IAAA,KAAM,MAAN,+C;QAHiD,OAGjB,2BAAS,KAAM,M  
AAN,8BAAC,CAAd,EAAT,EAA0B,KAAM,KAAhC,0BAAwC,CAAxC,E;:QAHiB,OAIzC,oB;K;IAOZ,yB;MAAY  
C,YjFrTkB,MAAO,OiFqTpB,KjFrToB,CiFqTzB,I;K;IAEzC,4C;MAEI,OAAA,SAAK,KAAK,EAAL,GAAU,QAA  
f,GAAyC,CAAX,CAAC,QAAD,IAAW,KAAI,E;K;IAEjD,uC;MvLTVI,IAAI,EUlSVuD,QAAQ,IvLTV/D,CAAJ,C;  
QACI,cuLqVuE,+B;QvLpVvE,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IuLqVd,yC;MvLvVI,IAAI,EUlVvYD,sBA  
AQ,IAAR,KvLvVzD,CAAJ,C;QACI,cuLsVyE,+B;QvLrVzE,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IuLsVd,yC;M  
vLxVI,IAAI,EUlWV6D,QAAQ,IvLxVrE,CAAJ,C;QACI,cuLuV6E,+B;QvLTV7E,MAAM,gCAAYB,OAAQ,WAAj  
C,C;Q;IuLwVd,yC;MAAYD,oCAA0B,IAA1B,qBAAiC,KAAjC,kB;K;ICrXzD,6B;MAOqC,OnMmYE,SmMnYF,m  
BnMmYE,C;K;ImMjYvC,sC;MASgD,6BAAS,WAAT,EAAa,KAAb,C;K;IAEhD,4C;MAUI,qBAAqB,IAArB,EAA  
2B,KAA3B,C;MAEA,iBAAiB,InMqQgB,KmMrQhB,GAAiB,W;MACiC,kBAAkB,KnMoQe,KmMpQf,GAaKB,W  
;MAEpC,mBAAMB,0BAAQ,UAAR,EAAoB,WAAPB,IAAqC,W;MACxD,OnMsWmC,SmMtW5B,YnMsW4B,C;  
K;ImMnWvC,sC;MAWI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAoC,KAA7D,C;:QACzB,InMG  
kE,YmMHIE,KAAM,KnMG6E,KAAjB,EmMHRD,4BAAK,UnMG6E,KAA7B,CmMHIE,K;UAFiD,OAeIB,sBAA  
S,KAAM,MAAf,EnMqBsB,SmMrBA,KAAM,KnMqBI,KAAK,GAAW,CmMrBb,WnMqBa,MAAX,IAAf,CmMrB  
tB,C;:UAC/B,InMEkE,YmMFIE,KAAM,MnME6E,KAAjB,EmMFpD,4BAAK,UnME4E,KAA7B,CmMFIE,K;YA  
HiD,OnMuBI,SmMpBrB,sBnMiCsB,SmMjCb,KAAM,MnMiCiB,KAAK,GAAY,CmMjC1B,WnMiC0B,MAAZ,IA  
Af,CmMjCtB,EAA2B,KAAM,KAAjC,CnMoB+B,KAAK,GAAW,CmMpBN,WnMoBM,MAAX,IAAf,C;:YmMvB  
J,OAIzC,mB;:K;IAGZ,8B;MAOuC,OnL0VG,Uml1VH,oBnL0VG,C;K;ImLxV1C,uC;MASmD,8BAAU,2BAAV,  
EAAe,KAAf,C;K;IAEnD,6C;MAUI,sBAAsB,IAAtB,EAA4B,KAA5B,C;MAEA,iBAAiB,InLwNkB,KmLxNIB,8B;  
MACjB,kBAAkB,KnLuNiB,KmLvNjB,8B;MAEIB,mBAAMB,2BAAS,UAAT,EAAqB,WAARb,+B;MACnB,OnL  
6TsC,Uml7T/B,YnL6T+B,C;K;ImL1T1C,uC;MAWI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAo  
C,KAA7D,C;:QACzB,InL7CmE,amL6CnE,KAAM,KnL7C+E,KAAIB,EmL6CtD,6BAAM,UnL7C8E,KAA9B,Cm  
L6CnE,K;UAFoD,OAEPB,uBAAU,KAAM,MAAhB,EnLhCuB,UmlgCA,KAAM,KnLhCK,KAAK,KAAW,ChBs  
Q7C,UAAW,oBAAL,CmMtOyB,WnMsOzB,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,CmLgCvB,C;:UA  
ChC,InL9CmE,amL8CnE,KAAM,MnL9C+E,KAAIB,EmL8CrD,6BAAM,UnL9C6E,KAA9B,CmL8CnE,K;YAHo  
D,OnL9BG,UmlIcTb,uBnLpBuB,UmlObb,KAAM,MnLpBkB,KAAK,UAAy,ChByP/C,UAAW,oBAAL,CmMrO  
c,WnMqOd,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,CmLoBvB,EAA4B,KAAM,KAAIC,CnLjCiC,KAA  
K,KAAW,ChBsQ7C,UAAW,oBAAL,CmMrOgC,WnMqOhC,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C  
:YmL8BH,OAI5C,oB;:K;IAGZ,sC;MAQI,4BAAU,KhK4+FH,QgK5+FP,C;MACA,OAAO,K;K;IAGX,uC;MAKs  
D,OhK2iG3C,egK3iG2C,4BAAU,IAAV,ChK2iG3C,C;K;IgKziGX,4D;MAOGD,yB;QAAA,YAAiB,C;MAAG,uB;  
QAAA,UAAe,KAAM,K;MACrF,4BAAU,KhKy9FH,QgKz9FP,EAA+B,SAA/B,EAA0C,OAA1C,C;MACA,OAA  
O,K;K;IAIX,2C;MxLrHI,IAAI,EX2B8D,YmM0FD,KnM1FkB,KAAjB,EmM0FO,InM1FsB,KAA7B,CmM0FD,Ix  
LrH7D,CAAJ,C;QACI,cwLoH6E,+B;QxLnH7E,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IwLoHd,4C;MxLrHI,IAAI  
,EKmC+D,amLmFC,KnLnFiB,KAAIB,EmLmFS,InLnFqB,KAA9B,CmLmFC,IxLrHhE,CAAJ,C;QACI,cwLqHgF,  
+B;QxLpHhF,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IyLpBc,6C;MAScxB,oC;MA/BA,iB;MANA,Y;MACA,Y;M  
ACA,Y;MACA,Y;MACA,Y;MACA,sB;MzLYA,IAAI,EyLLQ,CAAC,WAAK,QAAL,GAAU,QAAV,GAAe,QAAf  
,GAAoB,QAARb,MAA2B,CzLKnC,CAAJ,C;QACI,cyLNwC,wD;QzLOxC,MAAM,gCAAYB,OAAQ,WAAjC,C;O  
GoHV,iBAAC,CAAd,UsLxHW,EtLwHX,U;QsLxHiB,c;:K;qCAGjB,Y;MAGI,QAAQ,Q;MACR,IAAI,IAAO,MAA  
O,C;MACIB,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,SAAS,Q;MACT,WAAI,E;MACJ,IAAK,IAAO,KA  
AM,CAAd,GAAsB,EAAtB,GAA8B,MAAO,C;MACzC,WAAI,C;MACJ,gCAAU,MAAV,I;MACA,OAAO,IAAI,a  
AAJ,I;K;8CAGX,oB;MACI,OAAU,cAAV,cAAU,EAAC,QAAd,C;K;IAEd,kC;MAAA,sC;MACI,4B;K;:;IADJ,8C;  
MAAA,6C;QAAA,4B;OAAA,sC;K;:IA7BA,gD;MAAA,sD;MACQ,yBAAK,KAAAL,EAAY,KAAZ,EAAMB,CAAN  
B,EAAsB,CAAtB,EAA+B,CAAN,KAAzB,EAAuC,SAAU,EAAX,GAAoB,UAAW,CAArE,C;MADR,Y;K;ICbiD,  
8C;MACjD,4B;MACA,0C;K;oEADA,Y;MAAA,2B;K;2EACA,Y;MAAA,kC;K;uCAGA,iB;MACI,OAAO,0CAA

C,kBAaA,KAAM,UAAAnB,KAC/B,mBAAS,KAAM,MAAf,KAAwB,0BAAgB,KAAM,aAAtB,CADO,CAAhC,C;  
K;yCAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,MAAW,SAAN,UAAAM,CAAX,QAAqC,SAAb,iBAaA,CA  
ArC,I;K;yCAGIC,Y;MAAkC,OAAE,UAAF,qBAAU,iB;K;;IAGhD,kC;MAM6E,2BAAgB,SAAhB,EAAsB,IAAtB,  
C;K;;;0DAYzE,iB;MAA2C,qCAAiB,UAAjB,EAAwB,KAAxB,KAAC,8BAAiB,KAAjB,EAAwB,iBAAXB,C;K;i  
DAC7E,Y;MAAkC,QAAC,8BAAiB,UAAjB,EAAwB,iBAAXB,C;K;;IAcR,gD;MAI3B,gBAAqB,K;MACrB,uBAA  
4B,Y;K;0FACD,Y;MAAQ,oB;K;iGACD,Y;MAAQ,2B;K;2DAE1C,gB;MAA+D,YAAK,C;K;mDAEPe,iB;MAAg  
D,gBAAS,aAAT,IAAmB,SAAS,oB;K;0CAC5E,Y;MAAkC,SAAE,iBAAU,oBAAZ,C;K;yCAEIC,iB;MACI,OAA  
O,4CAA+B,kBAaA,KAAM,UAAAnB,KAC9B,kBAAU,KAAM,SAAhB,IAA0B,yBAAiB,KAAM,gBADnB,CAA/B,  
C;K;2CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,MAAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAC,C  
AAvC,I;K;2CAGIC,Y;MAAkC,OAAE,aAAF,qBAAW,oB;K;;IAGjD,oC;MAOqF,6BAAkB,SAAB,EAAwB,IAAx  
B,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;K;0  
DAEzC,gB;MAA6D,YAAK,C;K;kDAEIE,iB;MAA+C,gBAAS,aAAT,IAAmB,SAAS,oB;K;yCAC3E,Y;MAAkC,S  
AAE,iBAAU,oBAAZ,C;K;wCAEIC,iB;MACI,OAAO,2CAA8B,kBAaA,KAAM,UAAAnB,KAC7B,kBAAU,KAAM  
,SAAhB,IAA0B,yBAAiB,KAAM,gBADpB,CAA9B,C;K;0CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,M  
AAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAC,CAAvC,I;K;0CAGIC,Y;MAAkC,OAAE,aAAF,qBAAW,oB;K;;  
IAGjD,oC;MAOkF,4BAAiB,SAAjB,EAAuB,IAAvB,C;K;oFAGIF,8B;MAQI,0BAAmB,2BAAS,OAAT,C;K;IAGv  
B,+C;MACI,IAAI,CAAC,UAAL,C;QAAiB,MAAM,gCAAYB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MAcW,  
Q;MADP,IAAI,CAAC,6BAAW,KAAX,CAAL,C;QAAwB,MAAM,uBAAmB,sC/EjBzC,oB+EiByC,CAAnB,C;O  
AC9B,OAAO,sD;K;IAMX,oC;MAAkC,Q;MAA9B,OAAW,6BAAW,KAAX,CAAJ,GAAuB,sDAAvB,GAAuC,I;K;  
;;;;;ICvBhB,yC;MA2B9B,uC;MA1BA,wB;MAIA,gB;M5LQA,IAAI,E4LDS,iBAAy,IAAb,MAAuB,iBAAvB,C5L  
CR,CAAJ,C;QACI,c4LDQ,iBAAy,IAAhB,GACI,8CADJ,GAGI,sCAA0B,aAA1B,qC;Q5LDR,MAAM,gCAAYB,  
OAAQ,WAAjC,C;Q;yC4LKV,Y;MAAwC,Q;MAAA,oB;MACpC,iB;QAD8B,OAcTb,G;WACR,oD;QAF8B,OAE  
F,SAAL,SAAK,C;WAC5B,6C;QAH8B,OAGd,iBAAK,SAAL,C;WACHB,8C;QAJ8B,OAIb,kBAAM,SAAN,C;;Q  
AJa,mC;K;IAOIC,qC;MAAA,yC;MACI,YAGqC,oBAAgB,IAAhB,EAAsB,IAAtB,C;K;iGAQJ,Y;MAAQ,gB;K;4D  
AEzC,gB;MAOI,8DAAqC,IAArC,C;K;gEAEJ,gB;MAMI,uDAA8B,IAA9B,C;K;4DAEJ,gB;MAMI,wDAA+B,IA  
A/B,C;K;;IArCR,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;2CArCJ,Y;MAWI,oB;K;2CAXJ,Y;MAeI,gB;K;6CAfJ,0  
B;MAAA,2BAWI,8CAXJ,EAeI,kCAfJ,C;K;yCAAA,Y;MAAA,c;MAWI,yD;MAIA,qD;MAfJ,a;K;uCAAA,iB;MA  
AA,4IAWI,4CAXJ,IAeI,oCAfJ,I;K;ICLA,kC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,gC;MAAA,mC;O;MAYI,4  
D;MAKA,8C;MAKA,gD;K;;IAVA,2C;MAAA,sB;MAAA,mC;K;;IAKA,oC;MAAA,sB;MAAA,4B;K;;IAKA,qC;  
MAAA,sB;MAAA,6B;K;;IAtBJ,4B;MAAA,mG;K;;IAAA,iC;MAAA,a;aAAA,W;UAAA,wC;aAAA,I;UAAA,iC;a  
AAA,K;UAAA,kC;gBAAA,6D;;K;;6ECAA,yB;MAAA,4F;MAAA,2B;QASI,MAAM,mCAA8B,0EAA9B,C;O;KA  
TV,C;ICkCA,+D;MAAw,Q;MAAP,OAAO,8CAAO,KAAP,EAAC,UAAAd,EAA0B,QAA1B,oC;K;IAGX,kC;MAIiB  
,Q;MAAb,wBAAa,KAAb,gB;QAAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;mFAGX,qB;M  
AGwD,gCAAO,EAAP,C;K;qFAExD,4B;MAG4E,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAOxD,4  
B;MAGmE,OAAA,yBAAO,KAAP,CAVX,gBAAO,EAAP,C;K;IAxD,wD;MAEQ,sB;QAAqB,yBAAO,UAAU,O  
AAV,CAAP,C;WACrB,sD;QAA4B,yBAAO,OAAP,C;WAC5B,2B;QAAmB,yBAAO,kBAAP,C;;QACX,yBAAe,S  
AAR,OAAQ,CAAF,C;K;IjL7EhB,+B;MAY6B,kBAAiB,QAAQ,SAAR,EAAC,EAAd,C;MACH,IX0EE,WW1EE,G  
AAK,CAAT,C;QAAy,MAAM,gCAAYB,oEAAzB,C;MADtB,OX4EO,W;K;IWvEX,wC;MAGBW,Q;MAAA,qCA  
AiB,KAAjB,C;MAAA,iB;QAA2B,MAAM,gCAAYB,8BAAO,SAAP,4CAA+C,KAAxE,C;OAAxC,OAAO,I;K;IA  
GX,qC;MAY6B,kBAAiB,QAAQ,SAAR,EAAC,EAAd,C;MAAP,OXmEqB,WWnEa,IAAM,CXmEjC,GAAqB,WA  
ArB,GAA+B,I;K;IWhE1C,8C;MAGBI,WAAW,KAAX,C;MAC4B,kBAArB,QAAQ,SAAR,EAAC,KAAd,C;MAAP  
,OX+CqB,WW/CgB,IAAM,CX+CpC,GAAqB,WAArB,GAA+B,I;K;IW5C1C,gC;MAWI,IAAY,CAAR,8BAAW,C  
AAf,C;QACI,OAAO,YAAM,SAAN,C;OAEX,MAAM,gCAAYB,SAAM,SAAN,4BAAzB,C;K;IAGV,yC;MAkBW,  
Q;MANP,IAAI,EAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAYB,oBAAiB,KAAjB,4CAAzB,C;OAE  
V,IAAI,YAAO,CAAP,IAAY,aAAQ,KAAxB,C;QACI,MAAM,gCAAYB,WAAQ,SAAR,mDAAwD,KAAjF,C;OAE  
EH,IAAI,YAAO,EAAX,C;QACH,mBAAM,SAAN,C;;QAEA,0BAAM,SAAN,IAAa,EAAb,C;;MAHJ,W;K;IAuFJ,  
8B;MAWsC,+B;K;0EAEtC,4B;MAM8D,OAAC,oBAAL,SAAK,CAAL,GAAB,K;K;IAEHf,gD;MAQoC,0B;QA  
AA,aAAsB,K;MACTd,IAAI,cAAQ,KAAZ,C;QAAmB,OAAO,I;MAC1B,IAAI,CAAC,UAAL,C;QAAiB,OAAO,K;

MAExB,gBAAqB,cAAL,SAAK,C;MACrB,iBAAuB,cAAN,KAAM,C;MAEhB,yBAAa,U;MAAb,U;QAA2B,OFr  
MyB,oBEqMzB,SFrMyB,CAAY,cAfrB,YAAY,CAAZ,CEoNhB,KFrMyB,oBEqMI,UFrMJ,CAAY,cAfrB,YAAY,  
CAAZ,C;OEoNID,W;K;IAGJ,gC;MAGyC,QAAQ,cAAA,sCAAK,cAAL,EAAoB,sCAAK,cAAzB,CAAR,6B;K;Ik  
L3OzC,6C;MAc6B,4B;QAAA,eAAuB,G;MACHd,wCAAsB,EAAtB,EAA0B,YAA1B,C;K;IAEJ,mE;MAKwC,yB;  
QAAA,YAAoB,E;MAAI,4B;QAAA,eAAuB,G;MhMGnF,IAAI,CmBwR+C,CAAC,Q6K1R5C,Y7K0R4C,CnBxRp  
D,C;QACI,cgMHiC,wC;QhMijC,MAAM,gCAAYB,OAAQ,WAAjC,C;OgMHV,cAAY,gB;MAEC,yBAAS,mBAA  
S,YAAA,SAAU,OAAV,EAAMB,OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAAkB,SAAIB,C;MA0E9D,gBAA  
gB,iBA1ET,OA0ES,C;MILg7CT,kBAAoB,gB;MAoSd,gB;MADb,YAAY,C;MACC,O0L9xDN,O1L8xDM,W;kB  
AAb,OAAa,cAAb,C;QAAA,sB;QA1RsB,U;QAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;Q0L/sDIB,kB;;  
YAHA,CAAC,YAAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,I0LltDH,C;UAC5C,a;;UAEA,4B;UA9E+B,uB;;Y9  
KgHzB,kC;YAAA,wBZ6qDyC,IY7qDzC,C;YAAA,qB;YAAA,oB;YAAA,oB;YAAAd,gE;cACI,I8KjHkD,CAAI,aA  
AH,U9KiHrC,YZ4qDqC,IY5qDrC,YAAK,OAAL,E8KjHqC,CAAG,C9KiHitD,C;gBACI,sBAAO,O;gBAAP,wB;;Y  
AGR,sBAAO,E;;;U8KrHH,iD;UAGI,gCAA2B,EAA3B,C;YAHJ,2BAGqC,I;IBACjC,IAAK,a1LyxD0C,I0LzxD1C,  
gBAAyB,uBAAzB,CAAL,C;YAJJ,2B1L6xDmD,IOjmDsB,WmLxLI,0BAAuC,mBAAvC,InLwLJ,C;;YmL5LzE,2  
BAKY,I;;UAYeR,iE7LJD,yB6LIC,4B1L+sD+C,I;;QA1RpB,8B;UAA6C,6B;;M0LpgDhF,OAIkFK,S1Lo7CE,W0Lp  
7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAvET,+B;MAeyC,gCAAc,EAAd,C;K;IAEzC,6  
C;MAGgC,yB;QAAA,YAAoB,E;MAM3C,Q;MALL,cAAY,gB;M1LurBL,kBAAS,gB;MA2FA,U;MAAA,S0LhxB  
M,O1LgxBN,W;MAAhB,OAAgB,gBAAhB,C;QAAGB,2B;QAAM,Ia3hB6B,CAAC,Qb2hBhB,Oa3hBgB,Cb2hB9  
B,C;UAAwB,WAAy,WAAI,OAAJ,C;;M0L9wBrD,kB1L+wBE,W;MAMrBA,oBAAM,iBAAa,qCAAwB,EAAXB,  
CAAb,C;MAuEA,U;MAAA,+B;MAAb,OAAa,gBAAb,C;QAAA,wB;QACT,aAAY,uBAAc,IAAd,E;;M0L5gDhB,s  
BAAAsB,CAGjB,oB1L0gDE,a0L1gDF,CAHiB,mBAGF,C;MAEP,yBAAS,mBAAS,YAAA,SAAU,OAAV,EAAMb,  
OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAAkB,SAAIB,C;MAMc9D,gBAAGB,iBAnCT,OAmCS,C;MILg7C  
T,oBAAoB,gB;MAoSd,kB;MADb,YAAY,C;MACC,S0LvvdDN,O1LuvDM,W;MAAb,OAAa,gBAAb,C;QAAA,0B;  
QA1RsB,U;QAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;Q0L/sDIB,kB;Q1Lq7C2B,c0Lx7C3B,CAAC,Y  
AAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,M0LltDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr7C3B,oBAxCmG  
,Q1LuvDpD,M0LvvdDoD,kBAwCnG,Y7LJD,yB6LIC,4B1L+sD+C,MA1RpB,U;UAA6C,+B;;M0L79ChF,OA0CK,  
S1Lo7CE,a0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAjCI,8C;MAAA,qB;QAEG,IAA  
G,QAAG,EAAG,CAAH,C;UAEQ,IAAA,EAAG,OAAG,GAAY,cAAO,OAAAnB,C;YAHZ,OAGyC,c;;YAHZC,OAI  
oB,E;;UAJpB,OAoy,iBAAS,E;O;K;IAfjC,0C;MAKgC,sB;QAAA,SAAiB,M;MAC7C,OAYK,eAXA,OADL,uBA  
CK,EAAL,4BAAJ,CAWA,EAAa,IAAb,C;K;IAET,gC;MAAwC,uB;;Q9KmDtB,gC;QAAA,gC;QAAA,mB;QAAA,  
kB;QAAA,kB;QAAd,0D;UACI,I8KpD+C,CAAI,aAAH,U9KoDIC,iCAAK,KAAL,E8KpDkC,CAAG,C9KoDnD,C;  
YACI,sBAAO,K;YAAP,wB;;QAGR,sBAAO,E;;;Mf3CA,4B;M6Lb6B,OAA8C,OAAM,EAAP,GAAC,gBAAd,GA  
A0B,E;K;IAGpF,wC;MAAkB,W;K;IAC9B,oD;MAAA,uB;QAAB,wBAAS,I;O;K;IAFvC,mC;MACI,IAAA,M7K  
kMgD,YAAU,C6KIM1D,C;QAD4C,OACxB,wB;;QADwB,OAEPc,kC;K;mBAGZ,yB;M1L86CA,+D;MAoSA,wE  
;M0LltDA,sF;QAKI,gBAAGB,2B;Q1Lg7CT,kBAAoB,gB;QAoSd,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,c  
AAb,C;UAAa,sB;UA1RsB,U;UAAA,cA0RT,oBAAMb,cAAnB,EAAMb,sBAAnB,U;U0L/sDIB,kB;U1Lq7C2B,c0  
Lx7C3B,CAAC,YAAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,I0LltDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr  
7C3B,sC1L+sD+C,I0L/sD/C,a7LJD,yB6LIC,4B1L+sD+C,IA1RpB,U;YAA6C,6B;;Q0Lz7ChF,OAMK,S1Lo7CE,  
W0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;O;KAbT,C;6EvEkSA,0B;MAGmE,OAAA,S  
AAK,gBAAO,GAAP,C;K;qFAExE,yB;MAAA,yD;MAAA,gC;QAO2B,gBAAhB,oB;QAAsB,atHrU7B,W;QsHqU  
A,OtHpUO,SsHoUqC,W;O;KAPhD,C;uFAUA,yB;MAAA,iE;MAAA,0C;QAQmC,gBAAXB,mBAAC,QAAd,C;QA  
A8B,atHhVrC,W;QsHgVA,OtH/UO,SsH+U6C,W;O;KARxD,C;IAWA,oC;MAIiB,Q;MAAb,wBAAa,KAAb,gB;Q  
AAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;IAGX,oC;MAIiB,Q;MAAb,wBAAa,KAAb,gB  
;QAAA,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;qFAGX,qB;MAG8D,gCAAO,EAAP,C;K;qF  
AE9D,4B;MAGkF,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAO9D,4B;MAG4E,OAAA,yBAAO,KA  
AP,CAVd,gBAAO,EAAP,C;K;qFAY9D,4B;MAGyE,OAAA,yBAAO,KAAP,CAFX,gBAAO,EAAP,C;K;qFAiB9D  
,4B;MAG8E,OAAA,yBAAO,KAAP,CAPhB,gBAAO,EAAP,C;K;qFAsB9D,4B;MAGyE,OAAA,yBAAO,KAAP,  
CAzBX,gBAAO,EAAP,C;K;qFA2B9D,4B;MAG4E,OAAA,yBAAO,KAAP,CA9Bd,gBAAO,EAAP,C;K;I9H/a9D,

iC;MAK0C,iCAAqB,EAARb,C;K;IAE1C,0C;MAQmB,Q;MAAA,qBAAL,SAAK,EAAY,KAAZ,C;MAAL,iB;QA  
A2B,OAAO,I;OAA5C,UAAU,I;MACV,IAAI,MAAM,sCAAK,UAAW,IAAwB,MAAM,sCAAK,UAAvC,C;QAAK  
D,OAAO,I;MACzD,OAAW,OAAJ,GAAL,C;K;IAGf,kC;MAK4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MAQmB,Q;M  
AAA,qBAAL,SAAK,EAAY,KAAZ,C;MAAL,iB;QAA2B,OAAO,I;OAA5C,UAAU,I;MACV,IAAI,MAAM,uCAA  
M,UAAZ,IAAyB,MAAM,uCAAM,UAAzC,C;QAAoD,OAAO,I;MAC3D,OAAW,QAAJ,GAAL,C;K;IAGf,gC;MA  
KwC,gCAAOB,EAAPB,C;K;IAExC,yC;MAQI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MACIB,IAAI,WAAU,C  
AAd,C;QAAiB,OAAO,I;MAExB,S;MACA,c;MACA,S;MAEA,gBAAGB,qBAAK,CAAL,C;MACHb,IAAI,YAAY,  
EAHb,C;QACI,IAAI,WAAU,CAAd,C;UAAiB,OAAO,I;QAExB,QAAQ,C;QAER,IAAI,cAAa,EAjB,C;UACI,a  
AAa,I;UACb,QAAQ,W;eACL,IAAI,cAAa,EAjB,C;UACH,aAAa,K;UACb,QAAQ,W;;UAER,OAAO,I;;QAEX,Q  
AAQ,C;QACR,aAAa,K;QACb,QAAQ,W;;MAIZ,uBAuB,S;MAEvB,qBAaQB,gB;MACrB,aAAa,C;MACb,aAA  
U,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAiB,KAAjB,C;QAEZ,IAAI,QAAQ  
,CAAZ,C;UAAe,OAAO,I;QACTb,IAAI,SAAS,cAAb,C;UACI,IAAI,mBAaKB,gBAAtB,C;YACI,iBAaiB,QAAQ,  
KAAR,I;YAEjB,IAAI,SAAS,cAAb,C;cACI,OAAO,I;;YAGX,OAAO,I;;SAIf,6BAAU,KAAV,C;QAEA,IAAI,UAA  
S,QAAQ,KAAR,IAAT,CAAJ,C;UAA4B,OAAO,I;QAEnC,kBAAU,KAAV,I;;MAGJ,OAAW,UAAJ,GAAGB,MA  
AhB,GAA4B,CAAC,MAAD,I;K;IAGvC,iC;MAK0C,iCAAqB,EAARb,C;K;IAE1C,0C;MAQI,WAAW,KAAX,C;  
MAEA,aAAa,SAAK,O;MACIB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,S;MACA,c;MACA,S;MAEA,gB  
AAGB,qBAAK,CAAL,C;MACHb,IAAI,YAAY,EAHb,C;QACI,IAAI,WAAU,CAAd,C;UAAiB,OAAO,I;QAExB,  
QAAQ,C;QAER,IAAI,cAAa,EAjB,C;UACI,aAAa,I;UACb,gC;eACG,IAAI,cAAa,EAjB,C;UACH,aAAa,K;UA  
Cb,6B;;UAEA,OAAO,I;;QAEX,QAAQ,C;QACR,aAAa,K;QACb,6B;;MAIJ,2C;MAEA,qBAaQB,gB;MACrB,e;M  
ACA,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAiB,KAAjB,C;QAEZ,IA  
AI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACTb,IAAI,uBAAS,cAAT,KAJ,C;UACI,IAAI,uBAaKB,gBAaIB,CAAJ,  
C;YACI,iBAaiB,8BAAQ,KAAR,E;YAEjB,IAAI,uBAAS,cAAT,KAJ,C;cACI,OAAO,I;;YAGX,OAAO,I;;SAIf,6  
CAAU,KAAV,E;QAEA,IAAI,uBAAS,8BAAQ,KAAR,EAAT,KAJ,C;UAA4B,OAAO,I;QAEnC,6CAAU,KAAV,  
E;;MAGJ,OAAW,UAAJ,GAAGB,MAHb,GAA6B,MAAD,a;K;IAIvC,kC;MAAyD,MAAM,0BAAsB,6BAA0B,K  
AA1B,MAAtB,C;K;uEwBhI/D,yB;MAAA,oC;MAAA,uC;QAI,iBAaiB,C;QACjB,eAAe,mBAAS,CAAT,I;QACf,  
iBAaiB,K;QAEjB,OAAO,cAAc,QAArB,C;UACI,YAAgB,CAAC,UAAL,GAaiB,UAAjB,GAaiC,Q;UAC7C,YA  
AY,UAAU,iCAAK,KAAL,EAIV,C;UAEZ,IAAI,CAAC,UAAL,C;YACI,IAAI,CAAC,KAAL,C;cACI,aAAa,I;;cA  
Eb,0BAAc,CAAd,I;;YAEJ,IAAI,CAAC,KAAL,C;cACI,K;;cAEA,sBAAY,CAAZ,I;;QAIZ,OAAO,8BAAY,UAAZ  
,EAawB,WAAW,CAAX,IAAxB,C;O;KAZBX,C;yEA4BA,yB;MAAA,8B;MA5BA,oC;MA4BA,uC;QAIK,Q;QAA  
sB,kBAAtB,2D;QA5BD,iBAaiB,C;QACjB,eAAe,qBAAS,CAAT,I;QACf,iBAaiB,K;QAEjB,OAAO,cAAc,QAAr  
B,C;UACI,YAAgB,CAAC,UAAL,GAaiB,UAAjB,GAaiC,Q;UAC7C,YAsBwB,SAtBZ,CAAU,mCAAK,KAAL,E  
AAV,C;UAEZ,IAAI,CAAC,UAAL,C;YACI,IAAI,CAAC,KAAL,C;cACI,aAAa,I;;cAEb,0BAAc,CAAd,I;;YAEJ,I  
AAI,CAAC,KAAL,C;cACI,K;;cAEA,sBAAY,CAAZ,I;;QAWZ,OAPO,gCAAY,UAAZ,EAawB,WAAW,CAAX,I  
AAxB,CAOGC,W;O;KAJ3C,C;iFAMA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAIuB,UAAL,MAAK,EAAL,MA  
AK,EAAL,M;QAAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAAd,0D;UACI,IAAI,CAAC,UAAU,i  
CAAK,KAAL,EAIV,CAAL,C;YACI,OAAO,8BAAY,KAAZ,EAAMB,gBAAnB,C;QAEf,OAAO,E;O;KARX,C;m  
FAWA,yB;MAAA,8B;MAXA,mD;MAAA,oC;MAWA,uC;QAIK,Q;QAAsB,kBAAtB,2D;QAAsB,oB;;UAXJ,kC;  
UAAA,qBAAL,WAAK,C;UAAL,qB;UAAA,oB;UAAA,oB;UAAAd,0D;YACI,IAAI,CAUyB,SAVxB,CAAU,mCA  
AK,KAAL,EAIV,CAAL,C;cACI,mBAAO,gCAAY,KAAZ,EAAMB,kBAAnB,C;cAAP,qB;aAER,mBAAO,E;;Q  
AOP,OAA4C,2B;O;KAJhD,C;6EAMA,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAA  
a,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAAd,OAAC,cAAd,C;UAAc,uB;UACV,IAAI,CAAC,UAAU,iCAAK,K  
AAL,EAIV,CAAL,C;YACI,OAAO,8BAAY,CAAZ,EAae,QAAQ,CAAR,IAAf,C;;QAEf,OAAO,E;O;KARX,C;+  
EAWA,yB;MAAA,8B;MAXA,mD;MAAA,+C;MAAA,oC;MAWA,uC;QAIK,Q;QAAsB,kBAAtB,2D;QAAsB,kB;;  
UAXT,U;UAAA,SAAa,SAAR,YAAL,WAAK,CAAQ,CAAb,W;UAAAd,OAAC,gBAAd,C;YAAc,yB;YACV,IAAI,  
CAUuB,SAVtB,CAAU,mCAAK,KAAL,EAIV,CAAL,C;cACI,iBAAO,gCAAY,CAAZ,EAae,QAAQ,CAAR,IAA  
f,C;cAAP,mB;;UAER,iBAAO,E;;QAOP,OAA0C,yB;O;KAJ9C,C;IAMA,kC;MAhEI,iBAaiB,C;MACjB,eAAe,m  
BAAS,CAAT,I;MACf,iBAaiB,K;MAEjB,OAAO,cAAc,QAArB,C;QACI,YAAgB,CAAC,UAAL,GAaiB,UAAjB,  
GAaiC,Q;QAC7C,YA6DgE,4BA7D1C,iCAAK,KAAL,EA6D0C,E;QA3DhE,IAAI,CAAC,UAAL,C;UACI,IAAI,

CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UA EJ,IAAI,CAAC,KAAL,C;YACI,K;;YAEA,sBAAY,C  
AAZ,I;;;MAkDiD,OA9CtD,8BAAY,UAAZ,EAAwB,WAAW,CAAX,IAAxB,C;K;IAGDX,kC;MAzCK,Q;MAAsB,  
kBAAtB,2D;MA5BD,iBAAiB,C;MACjB,eAAe,qBAAS,CAAT,I;MACf,iBAAiB,K;MAEjB,OAAO,cAAc,QAARb,  
C;QACI,YAAgB,CAAC,UAAAL,GAAiB,UAAjB,GAAiC,Q;QAC7C,YAkEoD,4BAIE9B,mCAAK,KAAL,EAK8B  
,E;QAhEpD,IAAI,CAAC,UAAAL,C;UACI,IAAI,CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UA EJ,IA  
AI,CAAC,KAAL,C;YACI,K;;YAEA,sBAAY,CAAZ,I;;;MAuDqC,OAnD1C,gCAAY,UAAZ,EAAwB,WAAW,CA  
AX,IAAxB,CAOGC,W;K;IA8C3C,uC;MAGsE,oB;;QA3C/C,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QA  
Ad,0D;UACI,IAAI,CA0CsE,4BA1C3D,iCAAK,KAAL,EA0C2D,EA1C1E,C;YACI,mBAAO,8BAAY,KAAZ,EA  
AmB,gBAAnB,C;YAAP,qB;;QAER,mBAAO,E;;;MAuC2D,uB;K;IAEtE,uC;MAICK,Q;MAAsB,kBAAtB,2D;MAAs  
B,oB;;QAXJ,kC;QAAA,wBAAL,WAAK,C;QAAL,qB;QAAA,oB;QAAA,oB;QAAd,0D;UACI,IAAI,CA+C0D,4B  
A/C/C,mCAAK,KAAL,EA+C+C,EA/C9D,C;YACI,mBAAO,gCAAY,KAAZ,EAAmB,kBAAnB,C;YAAP,qB;;QA  
ER,mBAAO,E;;;MA4C+C,OArCV,2B;K;IAuChD,qC;MAGoE,kB;;QApCID,Q;QAAA,OAAa,WAAW,yBAAQ,CA  
Ab,W;QAAd,OAAc,cAAc,C;UAAc,uB;UACV,IAAI,CAMcKE,4BAnCvD,iCAAK,KAAL,EAmCuD,EAnCtE,C;Y  
ACI,iBAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAGCyD,qB;K;IAEpE,  
qC;MA3BK,Q;MAAsB,kBAAtB,2D;MAAsB,kB;;QAXT,U;QAAA,SAAa,WAAW,eAAL,WAAK,CAAQ,CAAb,W  
;QAAd,OAAc,gBAAd,C;UAAc,yB;UACV,IAAI,CAwCsD,4BAx3C3C,mCAAK,KAAL,EAwC2C,EAxC1D,C;YAC  
I,iBAAO,gCAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAqC6C,OA9BV,yB;K;IA  
gC9C,2B;MA9FI,iBAAiB,C;MACjB,eAAe,mBAAS,CAAT,I;MACf,iBAAiB,K;MAEjB,OAAO,cAAc,QAARb,C;  
QACI,YAAgB,CAAC,UAAAL,GAAiB,UAAjB,GAAiC,Q;QAC7C,mCAAsB,iCAAK,KAAL,EAAtB,E;QAEA,IAA  
I,CAAC,UAAAL,C;UACI,IAAI,CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UA EJ,IAAI,CAAC,KAAL,  
C;YACI,K;;YAEA,sBAAY,CAAZ,I;;;MAGf+B,OA5EpC,8BAAY,UAAZ,EAAwB,WAAW,CAAX,IAAxB,C;K;y  
EA8EX,yB;MAAA,8B;MAAA,qC;MAAA,4B;QAI2C,Q;QAAD,OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJxE,C  
;IAMA,gC;MAGoD,oB;;QA1E7B,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAA  
W,iCAAK,KAAL,EAAX,EAJ,C;YACI,mBAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;YAAP,qB;;QAER,mBAA  
O,E;;;MASEyC,uB;K;mFAEpD,yB;MAAA,8B;MAAA,+C;MAAA,4B;QAIgD,Q;QAAD,OAAuB,UAAtB,2DAAs  
B,CAAY,W;O;KAJIF,C;IAMA,8B;MAGkD,kB;;QApEhC,Q;QAAA,OAAa,WAAW,yBAAQ,CAAb,W;QAAd,OA  
Ac,cAAc,C;UAAc,uB;UACV,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAJ,C;YACI,iBAAO,8BAAY,CAAZ,EA  
e,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAGEuC,qB;K;+EAEID,yB;MAAA,8B;MAAA,2C;MAA  
A,4B;QAI8C,Q;QAAD,OAAuB,QAAtB,2DAAsB,CAAU,W;O;KAJ9E,C;IAMA,8C;MAU8C,uB;QAAA,UAAgB,  
E;MAO5C,Q;MANd,IAAI,SAAS,CAAb,C;QACI,MAAM,gCAAYB,oBAAiB,MAAjB,wBAAzB,C;MACV,IAAI,U  
AAU,SAAK,OAAAnB,C;QACI,OAAy,mBAAL,SAAK,EAAY,CAAZ,EAAe,SAAK,OAApB,C;MAEHb,SAAS,mB  
AAc,MAAd,C;MACK,gBAAS,SAAK,OAAAd,I;MAAd,aAAU,CAAV,iB;QACI,EAAG,gBAAO,OAAp,C;MACP,E  
AAG,gBAAO,SAAP,C;MACH,OAAO,E;K;IAGX,gD;MASwC,uB;QAAA,UAAgB,E;MACnD,Q;MAAD,OAAuB,  
SAAtB,6DAAsB,EAAS,MAAT,EAaiB,OAAjB,CAA0B,W;K;IAErD,4C;MAU4C,uB;QAAA,UAAgB,E;MAQ1C,  
Q;MAPd,IAAI,SAAS,CAAb,C;QACI,MAAM,gCAAYB,oBAAiB,MAAjB,wBAAzB,C;MACV,IAAI,UAAU,SA  
K,OAAAnB,C;QACI,OAAy,mBAAL,SAAK,EAAY,CAAZ,EAAe,SAAK,OAApB,C;MAEHb,SAAS,mBAAc,MAA  
d,C;MACT,EAAG,gBAAO,SAAP,C;MACW,gBAAS,SAAK,OAAAd,I;MAAd,aAAU,CAAV,iB;QACI,EAAG,gB  
AAO,OAAp,C;MACP,OAAO,E;K;IAGX,8C;MASsC,uB;QAAA,UAAgB,E;MACjD,Q;MAAD,OAAuB,OAAtB,6D  
AAsB,EAAO,MAAP,EAAe,OAAf,CAAwB,W;K;2FAEnD,qB;MAWI,OAAO,qBAAgB,SAAK,OAAL,KAAe,C;K  
;+EAG1C,qB;MAMoD,4BAAU,C;K;sFAE9D,qB;MAMuD,0BAAS,C;K;mFAMhE,yB;MAAA,2C;MAAA,4B;QA  
MuD,QAAC,kB;O;KANxD,C;yFAQA,yB;MAAA,2C;MAAA,4B;QAWI,OAAO,qBAAqB,QAAL,SAAK,C;O;KA  
XhC,C;IAiB4D,+C;MAAA,kC;MAAS,uB;MACjE,eAAoB,C;K;gDAEpB,Y;MAA2C,gB;MAAA,iE;MAAJ,4C;K;+  
CAEvC,Y;MAAyC,sBAAQ,yB;K;;IARrD,+B;MAG4D,4C;K;+EAQ5D,qB;MAE8C,uCAAQ,E;K;+EAEtD,mC;M  
ASI,OA5DgD,qBAAU,CA4D1D,GAAe,cAAf,GAAmC,S;K;6EAEvC,yB;MAAA,2C;MAAA,0C;QASI,OAAI,kBA  
AJ,GAAe,cAAf,GAAmC,S;O;KATvC,C;IAeI,mC;MAAQ,uBAAG,mBAAS,CAAT,IAAH,C;K;IAMR,qC;MAAQ,  
OAAA,SAAK,OAAL,GAAc,CAAd,I;K;IAEZ,8C;MAIuB,Q;MAAA,0BAAS,CAAT,I;MAAnB,OAAgB,CAAT,8B  
ACgB,gBAAZ,qBAAK,KAAL,CAAY,CADhB,IAEoB,eAAhB,qBAAK,QAAQ,CAAR,IAAL,CAAgB,C;K;IAG/B,  
uC;MAGuD,ONpKyC,oBMoK/B,KAAM,MNpKyB,EMoKIB,KAAM,aAAN,GAAqB,CAArB,INpKkB,C;K;IMsK



hG,yC;MAGqE,qCAAY,KAAM,MAAIB,EAAyB,KAAM,aAAN,GAAqB,CAArB,IAAzB,C;K;uFAErE,iC;MAS2E  
,2BAAY,KAAZ,EAAMb,GAAnB,C;K;mFAE3E,2C;MAO0D,wB;QAAA,WAAgB,gB;MAAkB,OAAA,8BAAY,U  
AAZ,EAAwB,QAAxB,CAAkC,W;K;IAE9H,uC;MAG6D,OAAA,8BAAY,KAAM,MAAIB,EAAyB,KAAM,aAAN  
,GAAqB,CAArB,IAAzB,CAAIb,W;K;IAE9G,sE;MAImD,qC;QAAA,wBAAgC,S;MAC/E,YAAy,sBAAQ,SAAR,  
C;MACZ,OAAW,UAAS,EAAPB,GAAwB,qBAAxB,GN1M4F,oBM0M/B,CN1M+B,EM0M5B,KN1M4B,C;K;IM  
6MhG,wE;MAIqD,qC;QAAA,wBAAgC,S;MACJF,YAAy,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAAPB,GAA  
wB,qBAAxB,GNnN4F,oBMmN/B,CNnN+B,EMmN5B,KNnN4B,C;K;IMsNhG,qE;MAIkD,qC;QAAA,wBAAgC,  
S;MAC9E,YAAy,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAAPB,GAAwB,qBAAxB,GN5N4F,oBM4N/B,QAA  
Q,CAAR,IN5N+B,EM4NpB,gBN5NoB,C;K;IM+NhG,uE;MAIoD,qC;QAAA,wBAAgC,S;MACHF,YAAy,sBAAQ  
,SAAR,C;MACZ,OAAW,UAAS,EAAPB,GAAwB,qBAAxB,GNrO4F,oBMqO/B,QAAQ,SAAU,OAAIB,INrO+B,  
EMqOL,gBNrOK,C;K;IMwOhG,0E;MAIuD,qC;QAAA,wBAAgC,S;MACnF,YAAy,0BAAY,SAAZ,C;MACZ,OA  
AW,UAAS,EAAPB,GAAwB,qBAAxB,GN9O4F,oBM8O/B,CN9O+B,EM8O5B,KN9O4B,C;K;IMiPhG,4E;MAIy  
D,qC;QAAA,wBAAgC,S;MACrF,YAAy,0BAAY,SAAZ,C;MACZ,OAAW,UAAS,EAAPB,GAAwB,qBAAxB,G  
NvP4F,oBMuP/B,CNvP+B,EMuP5B,KNvP4B,C;K;IM0PhG,yE;MAIsD,qC;QAAA,wBAAgC,S;MACIF,YAAy,0  
BAAY,SAAZ,C;MACZ,OAAW,UAAS,EAAPB,GAAwB,qBAAxB,GNhQ4F,oBMgQ/B,QAAQ,CAAR,INhQ+B,E  
MgQpB,gBNhQoB,C;K;IMmQhG,2E;MAIwD,qC;QAAA,wBAAgC,S;MACpF,YAAy,0BAAY,SAAZ,C;MACZ,  
OAAW,UAAS,EAAPB,GAAwB,qBAAxB,GNzQ4F,oBMyQ/B,QAAQ,SAAU,OAAIB,INzQ+B,EMyQL,gBNzQK  
,C;K;IM4QhG,oE;MAOI,IAAI,WAAW,UAAf,C;QACI,MAAM,8BAA0B,gBAAa,QAAb,oCAAkD,UAAID,OAAI  
B,C;MACV,SAAS,sB;MACT,EAAG,qBAAY,SAAZ,EAakB,CAAIB,EAAqB,UAArB,C;MACH,EAAG,gBAAO,  
WAAP,C;MACH,EAAG,qBAAY,SAAZ,EAakB,QAAIB,EAA4B,gBAA5B,C;MACH,OAAO,E;K;yFAGX,yB;M  
AAA,8B;MAAA,qD;MAAA,+D;QAOK,Q;QAAD,OAAuB,aAAtB,2DAAsB,EAAa,UAAb,EAAyB,QAAzB,EAA  
mC,WAAAnC,CAAGD,W;O;KAP3E,C;IASA,uD;MAOI,+BAaA,KAAM,MAAnB,EAA0B,KAAM,aAAN,GAAqB,  
CAArB,IAA1B,EAakD,WAAID,C;K;yFAEJ,yB;MAAA,8B;MAAA,qD;MAAA,gD;QAOK,Q;QAAD,OAAuB,aA  
AtB,2DAAsB,EAAa,KAAb,EAAoB,WAApB,CAAiC,W;O;KAP5D,C;IASA,sD;MASI,IAAI,WAAW,UAAf,C;QA  
CI,MAAM,8BAA0B,gBAAa,QAAb,oCAAkD,UAAID,OAA1B,C;MAEV,IAAI,aAAY,UAAhB,C;QACI,OAAy,m  
BAAL,SAAK,EAAy,CAAZ,EAAe,gBAAf,C;MAEHb,SAAS,mBAAC,oBAAU,QAAV,GAAqB,UAArB,KAAAd,C;  
MACT,EAAG,qBAAY,SAAZ,EAakB,CAAIB,EAAqB,UAArB,C;MACH,EAAG,qBAAY,SAAZ,EAakB,QAAIB,  
EAA4B,gBAA5B,C;MACH,OAAO,E;K;uFAGX,yB;MAAA,8B;MAAA,mD;MAAA,kD;QASK,Q;QAAD,OAAuB  
,YAAtB,2DAAsB,EAAy,UAAZ,EAAwB,QAAxB,CAAkC,W;O;KAT7D,C;IAWA,yC;MAKqE,8BAAY,KAAM,  
MAAIB,EAAyB,KAAM,aAAN,GAAqB,CAArB,IAAzB,C;K;uFAErE,yB;MAAA,8B;MAAA,mD;MAAA,mC;QA  
OK,Q;QAAD,OAAuB,YAAtB,2DAAsB,EAAy,KAAZ,CAAmB,W;O;KAP9C,C;IASA,yC;MAKI,IAAI,wBAAW,  
MAAX,CAAJ,C;QACI,OAAO,8BAAY,MAAO,OAAAnB,EAA2B,gBAA3B,C;OAEX,OAAO,8BAAY,CAAZ,EAA  
e,gBAAf,C;K;IAGX,2C;MAKI,IAAI,wBAAW,MAAX,CAAJ,C;QACI,ON3XyE,oBM2XxD,MAAO,ON3XiD,C;O  
M6X7E,OAAO,S;K;IAGX,yC;MAKI,IAAI,sBAAS,MAAT,CAAJ,C;QACI,OAAO,8BAAY,CAAZ,EAAe,mBAAS  
,MAAO,OAAhB,IAAf,C;OAEX,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;K;IAGX,2C;MAKI,IAAI,sBAAS,MAAT  
,CAAJ,C;QACI,ON9YwF,oBM8YvE,CN9YuE,EM8YpE,mBAAS,MAAO,OAAhB,IN9YoE,C;OMgZ5F,OAAO,S;  
K;IAGX,sD;MAMI,IAAK,qBAAU,MAAO,OAAP,GAAgB,MAAO,OAAvB,IAAV,CAAD,IAA6C,wBAAW,MAA  
X,CAA7C,IAAmE,sBAAS,MAAT,CAAvE,C;QACI,OAAO,8BAAY,MAAO,OAAAnB,EAA2B,mBAAS,MAAO,O  
AAhB,IAA3B,C;OAEX,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;K;IAGX,wD;MAMI,IAAK,qBAAU,MAAO,OA  
AP,GAAgB,MAAO,OAAvB,IAAV,CAAD,IAA6C,wBAAW,MAAX,CAA7C,IAAmE,sBAAS,MAAT,CAAvE,C;  
QACI,ONTawF,oBMsavE,MAAO,ONtagE,EMsaxD,mBAAS,MAAO,OAAhB,INTawD,C;OMwa5F,OAAO,S;K;IA  
GX,mD;MAKmf,oCAAkB,SAaIB,EAA6B,SAA7B,C;K;IAEnF,mD;MAKuE,sCAAkB,SAaIB,EAA6B,SAA7B,C  
;K;IAEvE,iF;MAIsE,qC;QAAA,wBAAgC,S;MACIG,YAAy,sBAAQ,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EA  
Ab,C;QAAA,OAAiB,qB;;QA5JvB,U;QA4JM,OA5JgB,aAAtB,+DAAsB,EA4JyC,CA5JzC,EA4J4C,KA5J5C,EA4J  
mD,WA5JnD,CAAGD,W;;MA4JvE,W;K;IAGJ,mF;MAIwE,qC;QAAA,wBAAgC,S;MACpG,YAAy,sBAAQ,SAAR,  
C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QArKvB,U;QAqKM,OArKgB,aAAtB,+DAAsB,  
EAqKyC,CArKzC,EAqK4C,KArK5C,EAqKmD,WArKnD,CAAGD,W;;MAqKvE,W;K;IAGJ,gF;MAIqE,qC;QAA  
A,wBAAgC,S;MACjG,YAAy,sBAAQ,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QA

A2B,iBAAa,QAAQ,CAAR,I;QAAb,eAAwB,gB;QA9K1E,U;QA8KM,OA9KgB,aAAtB,+DAAsB,EAAa,UAAb,E  
AAyB,QAAzB,EA8K4D,WA9K5D,CAAgD,W;;MA8KvE,W;K;IAGJ,kF;MAIuE,qC;QAAA,wBAAGC,S;MACnG,  
YAAy,sBAAQ,SAAR,C;MACL,Q;MAAA,IAAI,UAAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,SA  
AU,OAAIB,I;QAAb,eAAuC,gB;QAvLzF,U;QAUlM,OAuLgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,E  
AuL2E,WAvL3E,CAAgD,W;;MAuLvE,W;K;IAGJ,oF;MAI2E,qC;QAAA,wBAAGC,S;MACvG,YAAy,0BAAy,S  
AAZ,C;MACL,Q;MAAA,IAAI,UAAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,SAAU,OAAIB,I;QA  
Ab,eAAuC,gB;QAhMzF,U;QAgMM,OAhMgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,EAgM2E,WAhM  
3E,CAAgD,W;;MAgMvE,W;K;IAGJ,sF;MAIyE,qC;QAAA,wBAAGC,S;MACrG,YAAy,0BAAy,SAAZ,C;MACL  
,Q;MAAA,IAAI,UAAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,CAAR,I;QAAb,eAAwB,gB;QAzM1  
E,U;QAYmM,OAzMgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,EAYM4D,WAZM5D,CAAgD,W;;MAYm  
vE,W;K;IAGJ,qF;MAI0E,qC;QAAA,wBAAGC,S;MACtG,YAAy,0BAAy,SAAZ,C;MACL,Q;MAAA,IAAI,UAA  
S,EAAb,C;QAAA,OAAiB,qB;;QAlNvB,U;QAKnM,OAInG,aAAtB,+DAAsB,EAKNyC,CAInZC,EAKN4C,KAIN  
5C,EAKNmD,WAlNnD,CAAgD,W;;MAkNvE,W;K;IAGJ,uF;MAI4E,qC;QAAA,wBAAGC,S;MACxG,YAAy,0B  
AAy,SAAZ,C;MACL,Q;MAAA,IAAI,UAAAS,EAAb,C;QAAA,OAAiB,qB;;QA3NvB,U;QA2NM,OA3NgB,aAAtB  
,+DAAsB,EA2NyC,CA3NzC,EA2N4C,KA3N5C,EA2NmD,WA3NnD,CAAgD,W;;MA2NvE,W;K;+EAOJ,yC;MA  
QoF,OAAA,KAAM,iBAAQ,SAAR,EAAC,WAAd,C;K;+EAE1F,uC;MAOI,OAAA,KAAM,iBAAQ,SAAR,EAAC,S  
AAd,C;K;yFAEV,yC;MAMyF,OAAA,KAAM,sBAAa,SAAb,EAAMB,WAAnB,C;K;+FAE/F,yB;MAAA,oC;MAA  
A,gC;MAAA,uC;QAEW,Q;QAAA,IApe4C,mBAAS,CAoerD,C;uBAAkB,oBAAU,iCAAK,CAAL,EAAV,E;UAA  
A,YNljBoD,oBMkjBrB,CNljBqB,C;UMkjBtE,OLrjBwD,2BAAL,GAakB,K;;UKqjBrE,OAAyD,S;QAAhE,W;O;K  
AfJ,C;iGakBA,yB;MAAA,oC;MAAA,uC;QAEI,OAfmD,mBAAS,CAsf5D,GAAYB,UAAU,iCAAK,CAAL,EAA  
V,CAAmB,WAAnB,GNpkBoD,oBMokBV,CNpkBU,CMokB7E,GAA2E,S;O;Kaf/E,C;+EAmBA,4B;MAIsE,OA  
AA,KAAM,iBAAQ,SAAR,C;K;IAE5E,0F;MAKI,IAAK,cAAc,CAaf,IAAsB,aAAa,CAAnC,IAA0C,cAAa,SAAK,  
OoAL,GAAC,MAAd,IAAb,CAA1C,IAAiF,eAAc,KAAM,OAAN,GAae,MAAf,IAAd,CAArF,C;QACI,OAAO,K;  
OAGX,iBAAc,CAAd,UAAAS,MAAtB,U;QACI,IAAI,CAA0B,SAAZB,qBAAK,aAAa,KAAb,IAAL,CAAYB,EAA  
O,iBAAM,cAAc,KAAd,IAAN,CAAP,EAAMC,UAAAnC,CAA9B,C;UACI,OAAO,K;;MAEf,OAAO,I;K;IAGX,mD;  
MAG+C,0B;QAAA,aAAsB,K;MACjE,OAAA,SAAK,OAAL,GAAC,CAAd,IAA2B,SAAR,qBAAK,CAAL,CAAQ,  
EAAO,IAAP,EAAa,UAAb,C;K;IAE/B,iD;MAG6C,0B;QAAA,aAAsB,K;MAC/D,OAAA,SAAK,OAAL,GAAC,C  
AAd,IAAMC,SAAhB,qBAAK,2BAAL,CAAGB,EAAO,IAAP,EAAa,UAAb,C;K;IAEvC,qD;MAGyD,0B;QAAA,a  
AAsB,K;MAC3E,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAy,WAAL,SAAK,EAAW,MA  
AX,C;;QAEZ,OAAO,6BAakB,CAAIB,EAAqB,MAArB,EAA6B,CAA7B,EAAgC,MAAO,OAAvC,EAA+C,UAA/  
C,C;K;IAGf,iE;MAG0E,0B;QAAA,aAAsB,K;MAC5F,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QAC  
I,OAAy,aAAL,SAAK,EAAW,MAAX,EAAmB,UAAAnB,C;;QAEZ,OAAO,6BAakB,UAAIB,EAA8B,MAA9B,EA  
AsC,CAAtC,EAAyC,MAAO,OAAd,EAAwD,UAAxD,C;K;IAGf,mD;MAGuD,0B;QAAA,aAAsB,K;MACzE,IA  
AI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAy,SAAL,SAAK,EAAS,MAAT,C;;QAEZ,OAAO,6  
BAakB,mBAAS,MAAO,OAAd,IAAIB,EAA0C,MAA1C,EAAkD,CAAID,EAAqD,MAAO,OAA5D,EAAoE,UA  
ApE,C;K;IAMf,wD;MAQ8D,0B;QAAA,aAAsB,K;MACHf,qBfnBO,MAAO,KeinBa,SAAK,OfjnBlB,EeinB0B,K  
AAM,OfjnBhC,C;MemnBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA8B,SAAR,qBAAK,CAAL,CAAQ,EAAO,iB  
AAM,CAAN,CAAP,EAA8B,UAA9B,CAArC,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EAAmB,IAAI,CAAJ,IAA  
nB,CAAL,IAAwC,mBAAN,KAAM,EAAmB,IAAI,CAAJ,IAAnB,CAA5C,C;QACI,a;OAEJ,OAAO,8BAAY,CAA  
Z,EAAe,CAAF,CAAKB,W;K;IAG7B,wD;MAQ8D,0B;QAAA,aAAsB,K;MACHf,iBAAiB,SAAK,O;MACtB,kBAA  
kB,KAAM,O;MACxB,qBfxoBO,MAAO,KewoBa,UfxoBb,EewoByB,WfxoBzB,C;Me0oBd,QAAQ,C;MACR,OA  
AO,IAAI,cAAJ,IAA+C,SAAZB,qBAAK,aAAa,CAAb,GAAiB,CAAjB,IAAL,CAAYB,EAAO,iBAAM,cAAc,CAA  
d,GAAkB,CAAIB,IAAN,CAAP,EAAgD,UAAhD,CAAtD,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EAAmB,aAAa  
,CAAb,GAAiB,CAAjB,IAAnB,CAAL,IAAqD,mBAAN,KAAM,EAAmB,cAAc,CAAd,GAAkB,CAAIB,IAAnB,C  
AAzD,C;QACI,a;OAEJ,OAAO,8BAAY,aAAa,CAAb,IAAZ,EAA4B,UAA5B,CAAwC,W;K;IAMnD,8D;MAQqD,  
0B;QAAA,aAakB,C;MAAG,0B;QAAA,aAAsB,K;MAMnE,UAAkB,M;MAL3C,IAAI,CAAC,UAAD,IAAe,KAA  
M,OAAN,KAAC,CAA7B,IAAKC,6BAAtC,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONjtBwF,kB6G3ME,oBvG  
45BrE,IuG55BqE,C7G2MF,EMitB7D,UNjtB6D,C;OMotBnE,uBAAX,UAAW,EAAc,CAAd,C;MAAKB,oC;kBAA

3C,gD;QACI,kBAAkB,qBAAI,KAAJ,C;QACR,c;;UjCikXE,U;UAAhB,4BiCjkXQ,KjCikXR,kB;YAAgB,cAAhB,UiCjkXQ,KjCikXR,S;YAAAsB,IiCjkXC,SAAH,UjCikXgB,oBiCjkXhB,CAAG,0BjCikXD,C;cAAwB,aAAO,I;cAAP,e;;UAC9C,aAAO,K;;QiCikXH,e;UACI,OAAO,K;;MAEf,OAAO,E;K;IAGX,kE;MASyD,0B;QAAA,aAAkB,2B;MAAW,0B;QAAA,aAAAsB,K;MACxG,IAAI,CAAC,UAAD,IAAe,KAAM,OAAO,CAA7B,IAAkC,6BAAtC,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONruB4F,sB6G3MM,oBvGg7BzE,IuGh7ByE,C7G2MN,EMquB7D,U NruB6D,C;mBMyuBhG,iBAAYB,eAAX,UAAW,EAAa,2BAAb,CAAzB,WAAwD,CAAxD,U;QACI,kBAAkB,qB AAI,KAAJ,C;QACR,c;;UjCyiXE,Q;UAAhB,wBiCziXQ,KjCyiXR,gB;YAAgB,cAAhB,UiCziXQ,KjCyiXR,O;YA AsB,IiCziXC,SAAH,UjCyiXgB,oBiCziXhB,CAAG,0BjCyiXD,C;cAAwB,aAAO,I;cAAP,e;;UAC9C,aAAO,K;;Qi C1iXH,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;MAXI B,cAAkB,CAAC,IAAL,GACV,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAAcS,eAAT,QAAS,EAAa,gBAAb ,CAAtC,CADU,GAGV,SAAW,eAAX,UAAW,EAAa,2BAAb,CAAX,EAAmD,gBAAT,QAAS,EAAc,CAAd,CAA nD,C;MAEJ,IAAI,iCAAkB,yBAAtB,C;QACKB,yB;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAU,cAAN,KAAM ,EAAc,CAAd,EAAiB,SAAjB,EAAuB,KAAvB,EAA8B,KAAM,OAApC,EAA4C,UAA5C,CAAV,C;YACI,OAAO, K;;QAGD,2B;QAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAU,kBAAN,KAAM,EAAkB,CAAlB,EAAqB,SAArB, EAA2B,OAA3B,EAAkC,KAAM,OAAxC,EAAgD,UAAhD,CAAV,C;YACI,OAAO,O;;MAGnB,OAAO,E;K;IAG X,qE;MAUsB,UAMA,M;MAfIB,IAAI,CAAC,UAAD,IAAe,OAAQ,KAAR,KAAgB,CAAnC,C;QACI,aAAqB,UA AR,OAAQ,C;QACrB,YAAgB,CAAC,IAAL,GAAW,sBAAQ,MAAR,EAAgB,UAAhB,CAAX,GAA4C,0BAA Y,M AAZ,EAAoB,UAApB,C;QACxD,OAAW,QAAQ,CAAZ,GAAe,IAAf,GAAYB,UAAAS,MAAT,C;OAGpC,cAAkB, CAAC,IAAL,GAAW,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAA6B,gBAA7B,CAAX,GAAoD,SAAW,eA AX,UAAW,EAAa,2BAAb,CAAX,EAA0C,CAA1C,C;MAEIE,IAAI,6BAAJ,C;QACKB,yB;oBAAd,OAAc,cAAd,C ;UAAc,yB;UACmB,sB;;Yb7sBrB,U;YAAA,Sa6sBa,Ob7sBb,W;YAAhB,OAAgB,gBAAhB,C;cAAGB,2B;cAAM,I a6sBgC,cb7sBIB,Oa6sBkB,EAAc,CAAd,sBb7sBIB,Oa6sBmD,OAAjC,ab7sBhC,C;gBAAwB,qBAAO,O;gBAAP,u B;;YAC9C,qBAAO,I;;Ua4sBC,uC;UACA,IAAI,sBAAJ,C;YACI,OAAO,YAAS,cAAT,C;;QAGD,2B;oBAAd,OA Ac,gBAAd,C;UAAc,2B;UACmB,wB;;YbntBrB,U;YAAA,SamtBa,ObntBb,W;YAAhB,OAAgB,gBAAhB,C;cAAG B,6B;cAAM,IamtBgC,kBbntBIB,SamtBkB,EAAkB,CAAlB,sBbntBIB,SamtBuD,OAArC,abntBhC,C;gBAAwB,uB AAO,S;gBAAP,uB;;YAC9C,uBAAO,I;;UaktBC,2C;UACA,IAAI,wBAAJ,C;YACI,OAAO,YAAS,gBAAT,C;;M AInB,OAAO,I;K;IAGX,iE;MAY+D,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAAsB,K;MACtG,4BAAU,OAAV,E AAmB,UAAAnB,EAA+B,UAA/B,EAAkD,KAAID,C;K;IAEJ,mE;MAYmE,0B;QAAA,aAAkB,2B;MAAW,0B;QA AA,aAAAsB,K;MACIH,4BAAU,OAAV,EAAmB,UAAAnB,EAA+B,UAA/B,EAAkD,IAAID,C;K;IAEJ,kE;MAWgE, 0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAAsB,K;MACvG,gB;MAAA,8CAAU,OAAV,EAAmB,UAAAnB,EAA+B ,UAA/B,EAAkD,KAAID,mDAAmE,E;K;IAEvE,sE;MAYoE,0B;QAAA,aAAkB,2B;MAAW,0B;QAAA,aAAAsB,K; MACnH,gB;MAAA,8CAAU,OAAV,EAAmB,UAAAnB,EAA+B,UAA/B,EAAkD,IAAID,mDAaKE,E;K;IAKtE,6D; MAM4C,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAAsB,K;MACnF,OAAW,cAAc,gCAAzB,GACI,sBAAW,mB AAY,IAAZ,CAAX,EAA8B,UAA9B,EAA0C,UAA1C,CADJ,GNz2B4F,kB6G3ME,oBvGujC5E,IuGvjC4E,C7G2 MF,EM42BpE,UN52BoE,C;K;IM+2BhG,+D;MAQgD,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAAsB,K;MACvF ,OAAW,cAAc,gCAAzB,GACI,sBAAQ,MAAR,EAAgB,UAAhB,EAA4B,gBAA5B,EAAoC,UAApC,CADJ,GNx3 B4F,kBM23B1E,MN33B0E,EM23BIE,UN33BkE,C;K;IM83BhG,iE;MAQgD,0B;QAAA,aAAkB,2B;MAAW,0B;Q AAA,aAAAsB,K;MAC/F,OAAW,cAAc,gCAAzB,GACI,0BAAe,mBAA Y,IAAZ,CAAf,EAAkC,UAAIC,EAA8C,U AA9C,CADJ,GNp4BgG,sB6G3MM,oBvGklChF,IuGllCgF,C7G2MN,EMu4BpE,UNv4BoE,C;K;IM04BpG,mE;M AQoD,0B;QAAA,aAAkB,2B;MAAW,0B;QAAA,aAAAsB,K;MACnG,OAAW,cAAc,gCAAzB,GACI,sBAAQ,MAA R,EAAgB,UAAhB,EAA4B,CAA5B,EAA+B,UAA/B,EAAkD,IAAID,CADJ,GNn5BgG,sBMs5B1E,MNt5B0E,EM s5BIE,UNt5BkE,C;K;IMy5BpG,mD;MAM+D,0B;QAAA,aAAAsB,K;MACjF,OAAI,yBAAJ,GACI,sBAAQ,KAAR, UAA4B,UAA5B,KAA2C,CAD/C,GAGI,sBAAQ,KAAR,EAAe,CAAf,EAAkB,gBAAIB,EAA0B,UAA1B,KAAyC, C;K;IAIjD,kD;MAMsD,0B;QAAA,aAAAsB,K;MACxE,6BAAQ,IAAR,UAA2B,UAA3B,KAA0C,C;K;kFAE9C,4B; MAI0E,OAAA,KAAM,yBAAGB,SAAhB,C;K;IAM3C,yE;MACjC,oB;MACA,8B;MACA,oB;MACA,kC;K;IAG8 C,sF;MAAA,gE;MAC1C,iBAAqB,E;MACrB,yBAAwC,WAAx,yCAAW,EAAS,CAAT,EAAy,oCAAM,OAAIB, C;MACxC,uBAA2B,sB;MAC3B,gBAA0B,I;MAC1B,eAAmB,C;K;0EAEnB,Y;MACI,IAAI,uBAAkB,CAAtB,C;Q ACI,iBAAy,C;QACZ,gBAAW,I;;QAEX,IAAI,4CAAQ,CAAR,IAAa,uDAAa,yCAA1B,IAAmC,uBAAkB,yCAA

M,OAA/D,C;UACI,gBAAW,qCAAYB,iBAAN,yCAAM,CAAzB,C;UACX,uBAaKB,E;;UAEIB,YAAKB,iDAAN,y  
CAAM,EAAa,oBAAb,C;UACIB,IAAI,SAAS,IAAb,C;YACI,gBAAW,qCAAYB,iBAAN,yCAAM,CAAzB,C;YAC  
X,uBAaKB,E;;YAEIB,IAAK,QAAiB,KAAjB,aAAL,EAAY,SAAU,KAAV,a;YACZ,gBAAW,gCAAwB,KAAxB,C  
;YACX,yBAAoB,QAAQ,MAAR,I;YACpB,uBAaKB,0BAAwB,WAAU,CAAd,GAAiB,CAAjB,GAAwB,CAA5C,  
K;;QAG1B,iBAAy,C;;K;oEAIpB,Y;MAKiB,Q;MAJb,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mBAAa,C  
AAjB,C;QACI,MAAM,6B;MACV,aAAa,mE;MAEb,gBAAW,I;MACX,iBAAy,E;MACZ,OAAO,M;K;uEAGX,Y;  
MACI,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;iDA9C5B,Y;MAA8C,+D;K;;IAgEU,0E;M  
AAA,0C;QhB1mCjD,SgB2mCH,sBAAW,kBAAX,EAuB,YAAvB,EAakD,kBAaID,C;QAAA,OAAwE,KAAK,  
CAAT,GAAY,IAAZ,GAAsB,OAAM,CAAN,C;O;K;IAdIG,iF;MAUkE,0B;QAAA,aAaKB,C;MAAG,0B;QAAA,a  
AAsB,K;MAAO,qB;QAAA,QAAa,C;MAC7H,wBAAwB,KAAxB,C;MAEA,OAAO,4BAAwB,SAAXB,EAA8B,U  
AA9B,EAA0C,KAA1C,EAAiD,gDAAjD,C;K;IAwBiD,gF;MAAA,0C;QAAkB,Q;QAAA,oCAAU,sBAAV,EAA0  
B,YAA1B,EAAqD,kBAArD,EAawE,KAAxE,aAAsF,GAAG,UAAH,EAAe,WAAO,OAAtB,CAAT,F,O;O;K;IAIB9  
E,mF;MAc0E,0B;QAAA,aAaKB,C;MAAG,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MACrI,wBAAwB,  
KAAxB,C;MACA,qBAAGC,OAAX,UAAW,C;MAEHc,OAAO,4BAAwB,SAAXB,EAA8B,UAA9B,EAA0C,KAA  
1C,EAAiD,sDAAjD,C;K;IAIX,wC;MnBlTcI,IAAI,EmBmtCI,SAAS,CnBntCb,CAAJ,C;QACI,cmBktCkB,8C;QnBj  
tCIB,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;ImBkuCgE,sD;MAAA,qB;QAAE,yCAAU,EAAV,C;O;K;IAZhf,mE;  
MAWmE,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MACzG,OAAe,OAAtE,+BAaKB,UAAIB,UAA2C,  
UAA3C,EAA+D,KAA/D,CAAsE,EAAL,iCAAJ,C;K;IAE1E,yD;MAWyD,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,  
QAAa,C;MAC/F,IAAI,UAAW,OAAX,KAAmB,CAAvB,C;QACI,gBAAGB,WAAW,CAAX,C;QACHb,IAAI,EA  
C,SAh/BuC,YAAU,CAG/BID,CAAJ,C;UACI,OAAO,mBAAM,SAAN,EAAiB,UAAjB,EAA6B,KAA7B,C;UAI2E,  
kBAAb,cAAtE,+BAaKB,UAAIB,UAA2C,UAA3C,EAA+D,KAA/D,CAAsE,C;Mb8OtE,kBAAM,iBAAa,qCAA  
wB,EAAXB,CAAb,C;MAuEA,Q;MAAA,6B;MAAb,OAAa,cAAb,C;QAAA,sB;QACT,WAAy,WaTgF,uBbsTIE,Iat  
kE,CbsThF,C;;MatThB,ObuTO,W;K;Ia5SmE,wD;MAAA,qB;QAAE,yCAAU,EAAV,C;O;K;IARhf,qE;MAOiE,0  
B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MACvG,OAAe,OAAtE,6BAaKB,UAAIB,UAA2C,UAA3C,EA  
A+D,KAA/D,CAAsE,EAAL,mCAAJ,C;K;IAE1E,2D;MAOuD,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;  
MAC7F,IAAI,UAAW,OAAX,KAAmB,CAAvB,C;QACI,OAAO,mBAAoB,oBAAd,WAAW,CAAX,CAAc,CAAp  
B,EAAGC,UAAhC,EAA4C,KAA5C,C;OAG+E,kBAAb,cAAtE,6BAaKB,UAAIB,UAA2C,UAA3C,EAA+D,KAA/  
D,CAAsE,C;MbbqNtE,kBAAM,iBAAa,qCAAwB,EAAXB,CAAb,C;MAuEA,Q;MAAA,6B;MAAb,OAAa,cAAb,C;  
QAAA,sB;QACT,WAAy,Wa7RgF,uBb6RIE,Ia7RkE,Cb6RhF,C;;Ma7RhB,Ob8RO,W;K;Ia3RX,0D;MASI,wBAA  
wB,KAAxB,C;MAEA,oBAAoB,C;MACpB,gBAAGB,sBAAQ,SAAR,EAAMB,aAAnB,EAakC,UAAIC,C;MACHb,I  
AAI,cAAa,EAAb,IAAmB,UAAAS,CAAhC,C;QACI,OAAO,OAAO,SAAK,WAAZ,C;OAGX,gBAAGB,QAAQ,C;M  
ACxB,aAAa,iBAAsB,SAAJ,GAAqB,eAAN,KAAM,EAAa,EAAb,CAArB,GAA2C,EAA7D,C;;QAET,MAAO,WA  
36B6E,8BA26B/D,aA36B+D,EA26BhD,SA36BgD,CAAKC,WA26B/G,C;QACP,gBAAGB,YAAy,SAAU,OAAtB,  
I;QAEhB,IAAI,aAAa,MAAO,KAAP,MAAE,QAAQ,CAAR,IAAf,CAAjB,C;UAA2C,K;QAC3C,YAAy,sBAAQ,S  
AAR,EAAMb,aAAnB,EAakC,UAAIC,C;;MACP,sBAAa,EAAb,C;MAET,MAAO,WAI7BiF,8BAk7BnE,aAI7Bm  
E,EAk7BpD,gBAI7BoD,CAAKC,Wak7BnH,C;MACP,OAAO,M;K;2EAGX,mC;MAOmD,qB;QAAA,QAAa,C;M  
AAmB,OAAA,KAAM,eAAM,SAAN,EAAY,KAAZ,C;K;+FAEzF,mC;MAU6D,qB;QAAA,QAAa,C;MAAuB,OA  
AA,KAAM,yBAAGB,SAAhB,EAAsB,KAAtB,C;K;IAEvG,iC;MAK2D,mCAAGB,MAAhB,EAAwB,IAAxB,EAA8  
B,IAA9B,E;K;IAE3D,0B;MAKgD,OAAe,UAAf,uBAAE,C;K;IAqB/D,uD;MAQsB,Q;MAPIB,IAAI,iCAAKB,yBA  
AtB,C;QACI,OAAY,SAAL,SAAK,EAAO,KAAP,EAA2B,IAA3B,C;OAGhB,IAAI,cAAS,KAAb,C;QAAoB,OAA  
O,I;MAC3B,IAAI,qBAAGB,aAAhB,IAAiC,SAAK,OAAL,KAAe,KAAM,OAA1D,C;QAAkE,OAAO,K;MAEvD,u  
B;MAAIB,aAAU,CAAV,gB;QACI,IAAI,CAAS,SAAR,qBAAK,CAAL,CAAQ,EAAO,iBAAM,CAAN,CAAP,EA  
A8B,IAA9B,CAAb,C;UACI,OAAO,K;;MAIf,OAAO,I;K;IAGX,6C;MAQsB,Q;MAPIB,IAAI,iCAAKB,yBAAtB,C;  
QACI,OAAO,kBAAQ,KAAR,C;OAGX,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,qBAAGB,aAAhB,I  
AAiC,SAAK,OAAL,KAAe,KAAM,OAA1D,C;QAAkE,OAAO,K;MAEvD,uB;MAAIB,aAAU,CAAV,gB;QACI,I  
AAI,qBAAK,CAAL,MAAW,iBAAM,CAAN,CAAF,C;UACI,OAAO,K;;MAIf,OAAO,I;K;IAGX,oC;MAU+C,QA  
AM,SAAN,C;aAC3C,M;UAD2C,OACjC,I;aACV,O;UAF2C,OAehC,K;gBACH,MAAM,gCAAYB,mDAAgD,SA  
AzE,C;;K;IAGIB,0C;MAUsD,QAAM,SAAN,C;aACID,M;UADkD,OACxC,I;aACV,O;UAFkD,OAevC,K;gBAFu

C,OAG1C,I;;K;I8Kr8CZ,sB;MAAA,0B;MAII,aAC+B,e;MAC/B,cACgC,e;MAChC,WAC6B,e;MAC7B,YAC8B,e; MAC9B,eACiC,e;MACjC,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,eAC iC,gB;MACjC,iBACmC,gB;MACnC,qBAEuC,gB;MACvC,sBAEWc,gB;MACxC,kBACoC,gB;MACpC,cACgC,g B;MAChC,iBACmC,gB;MACnC,iBACmC,gB;MACnC,iBACmC,gB;MACnC,YAC8B,gB;MAC9B,aAC+B,iB;M AC/B,aAC+B,iB;MAC/B,uBACyC,iB;MACzC,wBAC0C,iB;MAC1C,sBACwC,iB;MACxC,uBACyC,iB;MACzC, wBAC0C,iB;MAC1C,sBACwC,iB;MACxC,cACgC,iB;MAChC,oBACsC,iB;MAcTc,cACgC,iB;MAChC,gBACKC ,iB;MACiC,aAC+B,iB;MAC/B,mBACqC,iB;MACrC,YAC8B,iB;MAC9B,UAC4B,iB;MAC5B,mBACqC,iB;MAC rC,gBACKC,iB;MACiC,mBACqC,iB;MACrC,sBACwC,iB;MAExC,sBAGwC,gB;MAExC,uBAGyC,gB;K;;;IA7F7 C,kC;MAAA,iC;QAAA,gB;OAAA,0B;K;,,,,,;2FCuE0C,Y;MAAQ,oCAAA,IAAb,C;K;IAiBpB,yC;MAAqB,kB;K; mIAC3C,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,a AAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAA A,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACn D,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,C AAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;qIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,EAAIB,C;K;gDAEnD,Y;MA MoC,OAAA,UAAM,YAAy,iBAAQ,CAAR,EAAW,UAAM,YAAy,KAA7B,C;K;;;6EhEjH9D,yB;MAAA,iD;MA AA,4B;QAI4C,kBAAM,SAAN,C;O;KAJ5C,C;+EAMA,yB;MAAA,gD;MAAA,oC;QAI+D,kBAAM,SAAN,EAAY ,MAAZ,C;O;KAJ/D,C;+EAMA,yB;MAAA,oC;MAAA,qC;QAIqE,sBAAM,SAAN,EAAY,OAAZ,C;O;KAJrE,C;Ii Y4B,4B;MAmBxB,gC;MAnB6C,0B;MAW7B,UAEA,MAFA,EAGA,M;MALZ,IiIjC8D,IjIiC9D,C;QACI,IAAI,kB AAJ,C;UACQ,mB;UAAJ,IAAI,sEAAAsB,SAAtB,EAAJ,C;YAAqC,MAAM,sBAAiB,YAAF,+CAAf,C;;UAEvC,qB; UAAJ,IAAI,0EAAuB,UAAvB,EAAJ,C;YAAuC,MAAM,sBAAiB,YAAF,gDAAf,C;UACzC,qB;UAAJ,IAAI,kEA A+B,mBAA/B,CAAJ,C;YAAwD,MAAM,sBAAiB,YAAF,mCAAf,C;;Q;mFAZID,Y;MAAQ,kCAAA,CAAb,C;K;+ FACU,Y;MAAQ,OAAA,eAAS,QAAT,GAAqB,C;K;qCACvE,Y;MAA0B,QADwB,eAAS,QAAT,GAAqB,CAC7C ,MAAqB,C;K;sCAC/C,Y;MAA2B,QAFuB,eAAS,QAAT,GAAqB,CAE5C,MAAqB,C;K;yFACxB,Y;MAAQ,OAA I,kBAAJ,mF;K;IAAhC,8B;MAAA,kC;MACI,YAC4B,gB;MAE5B,gBACgC,iBAAiB,UAAjB,C;MAChC,4BAAsC, uC;K;mDAEtC,yC;MAGI,2BAAoB,KAApB,EAA2B,UAA3B,EAAuC,UAAvC,C;K;iJAM8B,yB;MAAA,6C;MAA A,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;iJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;iJAU E,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;mJAKF,yB;MAAA,6C;MAAA,iD;MAAA,4B;QA AQ,uD;O;KAAR,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAUE,yB;MAAA,6C; MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAKH,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR ,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAUE,yB;MAAA,6C;MAAA,iD;MAA A,4B;QAAQ,uD;O;KAAR,C;yIAKR,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAIC,yB;MA AA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O; KAAR,C;yIAKH,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAIC,yB;MAAA,6C;MAAA,iD; MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;qIAKL,y B;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;qIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,g D;O;KAAR,C;qIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;mIAKJ,yB;MAAA,6C;MAA A,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;mIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;mIA UE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;uDAK9B,iB;MAK+C,OAAM,WAAN,KAAM,y C;K;uDAErD,iB;MAKgD,OAAM,aAAN,KAAM,yC;K;uDAEtD,iB;MASKD,OAAM,aAAN,KAAM,yC;K;wDAGx D,iB;MAKgD,OAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OAAM,aAAN,KAAM,0C;K;wDAEvD,iB;MA SmD,OAAM,aAAN,KAAM,0C;K;wDAGzD,iB;MAKgD,OAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OA AM,aAAN,KAAM,0C;K;wDAEvD,iB;MASmD,OAAM,aAAN,KAAM,0C;K;mDAGzD,iB;MAK2C,OAAM,WA AN,KAAM,qC;K;mDAEjD,iB;MAK4C,OAAM,aAAN,KAAM,qC;K;mDAEID,iB;MAS8C,OAAM,aAAN,KAAM, qC;K;mDAGpD,iB;MAK2C,OAAM,WAAN,KAAM,qC;K;mDAEjD,iB;MAK4C,OAAM,aAAN,KAAM,qC;K;mD AEID,iB;MAS8C,OAAM,aAAN,KAAM,qC;K;iDAGpD,iB;MAKyC,OAAM,WAAN,KAAM,mC;K;iDAE/C,iB;M AK0C,OAAM,aAAN,KAAM,mC;K;iDAEhD,iB;MAS4C,OAAM,aAAN,KAAM,mC;K;gDAGID,iB;MAKwC,OA AM,WAAN,KAAM,kC;K;gDAE9C,iB;MAKyC,OAAM,aAAN,KAAM,kC;K;gDAE/C,iB;MAS2C,OAAM,aAAN,

KAAM,kC;K;iDAEjD,iB;;QAY4C,OACxC,cAAc,KAAAd,EAAiC,KAAjC,C;;QACF,+C;UACE,MAAM,6BAAyB,s  
CAAmC,KAAAnC,OAAzB,EAASe,CAATe,C;;UAHkC,O;;K;0DAM5C,iB;;QAMqD,OACjD,cAAc,KAAAd,EAAiC,I  
AAjC,C;;QACF,+C;UACE,MAAM,6BAAyB,0CAAuC,KAAvC,OAAzB,EAA0E,CAA1E,C;;UAH2C,O;;K;uDAM  
rD,iB;;QAWmD,OAC/C,cAAc,KAAAd,EAAiC,KAAjC,C;;QACF,+C;UAFiD,OAG/C,I;;UAH+C,O;;K;gEAMnD,iB  
;;QAK4D,OACxD,cAAc,KAAAd,EAAiC,IAAjC,C;;QACF,+C;UAF0D,OAGxD,I;;UAHwD,O;;K;;IA/XhE,0C;MA  
AA,yC;QAAA,wB;OAAA,kC;K;oCAwYA,Y;MAC6C,kBAAY,YAAD,aAAX,EazZK,eAAS,QAAT,GAAqB,CAY  
Z1B,C;K;qCAE7C,iB;MAiBW,Q;MATH,IAAA,IAAK,aAAL,C;QACI,IAAI,KAAM,WAAN,IAAqB,IAAK,WAA  
L,KAAkB,KAAM,WAAxB,gBAAoC,CAA7D,C;UACI,OAAO,I;;UAEP,MAAM,gCAAyB,2EAAzB,C;WAEd,IA  
AA,KAAM,aAN,C;QAAsB,OAAO,K;MAI7B,KA7a0C,eAAS,QAAT,GAAqB,CA6a/D,OAA0B,KA7agB,WAAS  
,QAAT,GAAqB,CA6a/D,E;QACI,aAAa,IAAK,QAAL,KAAa,KAAM,QAAnB,C;QAET,uB;UACI,iCAA0B,MAA1  
B,C;;UAEA,kCAA2B,MAA3B,C;aAGZ,IAAA,IAAK,eAAL,C;QACI,mCAAqB,IAAK,QAA1B,EAAiC,KAAM,Q  
AAvC,C;;QAEA,mCAAqB,KAAM,QAA3B,EAakC,IAAK,QAAvC,C;MAbR,W;K;gDAiBJ,kC;MAGW,Q;MAFP,  
kBAakB,cAAc,UAd,C;MACiB,mBAAMb,eAAa,WAAb,C;MACZ,IAAI,8EAAc,mBAATC,CAAJ,C;QACH,yB  
AAyB,oBAAa,cAAc,WAAAd,CAAb,C;QACzB,uBAAGb,cAAc,YAAAd,MAA8B,kBAA9B,CAAhB,C;;QAEA,wBA  
A8B,WAAb,YAAa,yBAAsB,UAAtB,CAA9B,C;;MAJJ,W;K;sCAQJ,iB;MAMuD,wBAAS,KAAD,aAR,C;K;uCA  
EvD,iB;MAQe,UAUJ,M;MAXP,IAAI,iBAAJ,C;QAEQ,cAAS,CAAT,C;UAAc,MAAM,gCAAyB,mEAAzB,C;aAC  
pB,YAAQ,CAAR,C;UAAa,W;;UACL,OAAC,IAAD,a;QAHZ,W;OAMJ,IAAI,UAAS,CAAb,C;QAAgB,OAAO,qC  
;MAEvB,YAAy,Y;MACZ,aAAa,mCAAQ,KAAR,E;MACN,IAAI,kBAAJ,C;QACH,IAAI,yEAAJ,C;UAEI,yBAAg  
B,MAAhB,C;;UAEA,IAAI,sCAAS,KAAT,IAakB,KAAIB,CAAJ,C;YACI,mCAA0B,MAA1B,C;;YAEA,aAAa,cA  
Ac,KAAAd,C;YACb,eAAe,eAAQ,cAAc,MAAd,CAAR,C;YACf,mBAAMb,oCAAS,KAAT,E;YACnB,kBAakB,iB  
AAe,cAAc,sCAAW,KAAX,EAAd,CAAf,C;YACIB,IAAI,4CAAe,KAAf,IAAwB,MAAxB,KAAkC,gBAAgB,YAA  
hB,gBAAgC,CAATe,C;cACI,0BAA6B,WAAZ,WAAy,EAASe,8BAAa,UAAb,CAAT,CAA7B,C;;cAEA,SAAI,YA  
AM,WAAN,KAAM,CAAN,EAAMb,WAAN,KAAM,CAAnB,IAA0B,CAA9B,GAAiC,yCAAjC,GAA+C,qD;;;Q  
AK3D,IAAI,sCAAS,KAAT,IAakB,KAAIB,CAAJ,C;UACI,0BAAwB,WAAP,MAAO,EAASe,8BAAa,UAAb,CAA  
T,CAAxB,C;;UAEA,SAAI,YAAM,WAAN,KAAM,CAAN,EAAMb,WAAN,KAAM,CAAnB,IAA0B,CAA9B,GA  
AiC,yCAAjC,GAA+C,qD;;;MAvBvD,a;K;uCA4BJ,iB;MASI,eAAqB,WAAN,KAAM,C;MACrB,IAAa,QAAT,KA  
AuB,KAA3B,C;QACI,OAAO,mBAAM,QAAN,C;OAGX,WAAW,kB;MACX,aAAa,sBAAS,IAAT,IAAiB,K;MA  
C9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;qCAGIB,iB;MAQe,Q;MADX,IAAI,UAAS,CAAb,C;QAEQ,sB;UA  
AgB,gD;aAChB,sB;UAAgB,4D;;UACR,MAAM,gCAAyB,4DAAzB,C;QAHIB,W;OAMJ,IAAI,kBAAJ,C;QACI,O  
AAO,gBAAgB,qCAAQ,KAAR,EAAhB,C;;QAEp,IAAI,iBAAJ,C;UACI,OAAO,mBAAa,WAAN,KAAM,CAAb,C  
;QAEX,aAAa,qCAAQ,KAAR,E;QAEb,IAAI,kEAAgC,mBAAhC,CAAJ,C;UACI,UAAU,cAAc,sBAAS,oCAAS,K  
AAT,EAAT,CAAd,0BAA0C,KAA1C,E;UACV,OAAO,gBAAgB,cAAc,MAAd,MAAwB,GAAxB,CAAhB,C;SAE  
X,OAAO,iBAAiB,MAAjB,C;;K;qCAIf,iB;MAOI,eAAqB,WAAN,KAAM,C;MACrB,IAAa,QAAT,KAuB,KAAv  
B,IAAgC,aAAY,CAAhD,C;QACI,OAAO,iBAAI,QA AJ,C;OAGX,WAAW,kB;MACX,aAAa,sBAAS,IAAT,IAAiB  
,K;MAC9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;oCAGIB,iB;MAEI,kBAakB,SAAM,IAAK,cAAX,EAAWB,K  
AAM,cAA9B,C;MACIB,OAAO,IAAK,kBAAS,WAAT,CAAL,GAA6B,KAAM,kBAAS,WAAT,C;K;oCAG9C,Y;  
MACmC,oCAAW,C;K;oCAE9C,Y;MACmC,oCAAW,C;K;oCAE9C,Y;MACmC,+BAAY,yCAAS,WAArB,KAAi  
C,wBAAY,qDAAa,WAAzB,C;K;kCAEpE,Y;MACiC,QAAC,iB;K;yFAGC,Y;MAAQ,OAAI,iBAAJ,GAAmB,IAA  
D,aAAIB,GAA6B,I;K;yCAExE,iB;MACI,kBAakB,IAAK,WAAI,KAAkB,KAAM,WAAxB,C;MACIB,IAAI,yBA  
Ac,CAAd,IAAMb,CAAA,WAAy,QA AZ,GAAwB,CAAxB,MAA6B,CAApD,C;QACI,OAAO,IAAK,WAAS,iBA  
AU,KAAM,WAAhB,C;MAEzB,QA AQ,CA1IBsC,eAAS,QAAT,GAAqB,CA0IB3D,KAAyB,KA1IBa,WAAS,QA  
AT,GAAqB,CA0IB3D,K;MACR,OAAW,iBAAJ,GAakB,CAAC,CAAD,IAAIB,GAA0B,C;K;uHAMrC,kB;MAeI,O  
AAO,OAAO,gBAAP,EAAoB,mBAAPb,EAAoC,qBAAPc,EAAcD,qBAATd,EAAwE,yBAAXE,C;K;uHAGX,kB;  
MAcI,OAAO,OAAO,iBAAP,EAAqB,qBAArB,EAAuC,qBAAvC,EAAYD,yBAAZD,C;K;uHAGX,kB;MAaI,OAA  
O,OAAO,mBAAP,EAAuB,qBAAvB,EAAYC,yBAAZC,C;K;uHAGX,kB;MAYI,OAAO,OAAO,mBAAP,EAAuB,y  
BAAvB,C;K;0FAKP,Y;MAAQ,OAAI,iBAAJ,GAakB,CAAIB,GAA0B,6CAAe,EAAf,EAAMb,Q;K;4FAIvD,Y;M  
AAQ,OAAI,iBAAJ,GAakB,CAAIB,GAA0B,+CAAiB,EAajB,EAaqB,Q;K;4FAIvD,Y;MAAQ,OAAI,iBAAJ,GA  
AkB,CAAIB,GAA0B,+CAAiB,EAajB,EAaqB,Q;K;gGAIvD,Y;MACI,sB;QADI,OACY,C;WACHB,wB;QAFI,OA

EY,cAAc,wCAAQ,IAAR,EAAd,CAA6B,Q;;QAFzC,OAGK,wCAAQ,UAAR,EAAuB,Q;K;0CAMxC,gB;MAQiB,UAAN,M;MAAM,sB;MACT,iBAAA,yCAAS,WAAT,E;QAA4B,SAAP,wCAAO,kB;WAC5B,iBAAA,qDAAa,WAAb,E;QAAgC,SAAP,wCAAO,kB;;QAG5B,6BAAoB,YAAM,WAA1B,EAAsC,kBAAtC,EAAMd,IAAnD,C;;MALR,a;K;wCAUJ,gB;MAUiB,UAAN,M;MAAM,sB;MACT,iBAAA,yCAAS,WAAT,E;;WACA,iBAAA,qDAAa,WAAb,E;;;QACQ,+BAAoB,YAApB,EAA2B,kBAA3B,EAAwC,IAAxC,C;MAHZ,a;K;uCAOJ,gB;MAUI,OAAa,WAAb,oBAAO,IAAP,CAAA,4BAAyD,Q;K;kFAKhD,Y;MAAQ,6D;K;mFAKP,Y;MAAQ,8D;K;qFAKN,Y;MAAQ,gE;K;qFAKR,Y;MAAQ,gE;K;0FAKH,Y;MAAQ,qE;K;0FAKR,Y;MAAQ,qE;K;yFAKT,Y;MAAQ,oE;K;uFASrC,Y;MAAQ,2D;K;wFAQR,Y;MAAQ,4D;K;0FAQR,Y;MAAQ,8D;K;0FAQR,Y;MAAQ,8D;K;+FAQR,Y;MACI,OAAW,uBAAgB,eAApB,GAAgC,YAAhC,GAA2C,4D;K;+FAAtD,Y;MAAQ,mE;K;8FAYR,Y;MAEW,Q;MADP,YAA Y,Y;MAER,uB;QAAe,Y;WACf,8C;;WACA,+C;;QACQ,qBAAc,KAAAd,C;MAJZ,W;K;2CAUR,Y;MASuC,8B;K;4CAEvC,Y;MASwC,+B;K;kCAExC,Y;MAuBwC,Q;MAAA,sB;MACpC,qB;QAD8B,OACxB,I;WACN,iBAAA,yCAAS,WAAT,E;QAF8B,OAET,U;WACrB,iBAAA,qDAAa,WAAb,E;QAH8B,OAGL,W;;QAErB,iBAAiB,iB;Q6HzhBF,gBAAhB,sB;Q7H2hBK,e;UAAgB,yBAAO,EAAP,C;QACF,YAAAd,kB;QA9RD,WAAO,iB;QAAP,YAAoB,oB;QAAPB,cAAoC,sB;QAAPC,cAAsD,sB;QAAtD,kBAAwE,0B;QASs/D,0B;QAPJ,cAAc,iB;QACd,eAAe,UAA S,C;QACxB,iBAAiB,YAAW,C;QAC5B,iBAAiB,YAAW,CAAX,IAAgB,gBAAe,C;QACbD,iBAAiB,C;QACjB,IAAI,OAAJ,C;UACI,yBAAO,IAAP,CAAA,gBAAO,GAAP,C;UACb,+B;SAEJ,IAAI,aAAa,YAA Y,cAAc,UAA1B,CAAb,CAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAA sB,yBAAO,EAAP,C;UACtB,yBAAO,KAAP,CAAc,gBAAO,GAAP,C;SAEIB,IAAI,eAAe,eAAe,YAA Y,OAA3B,CAAf,CAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAA sB,yBAAO,EAAP,C;UACtB,yBAAO,EAAP,C;UAEIB,gBAAW,CAAX,IAAgB,OAAhB,IAA2B,QAA3B,IAAuC,UAAvC,C;YACI,mCAAiB,OAAjB,EAA0B,WAA1B,EAAuC,CAAvC,EAA0C,GAA1C,EAA2D,KAA3D,C;eACJ,mBAAe,OAAf,C;YACI,mCAAiB,cAAc,OAAd,IAAjB,EAA0C,cAAc,OAAXD,EAAMe,CAAnE,EAAsE,IAAtE,EAawF,KAAxF,C;eACJ,mBAAe,IAAf,C;YACI,mCAAiB,cAAc,IAAd,IAAjB,EAAsC,cAAc,IAApD,EAA2D,CAA3D,EAA8D,IAA9D,EAAGf,KAAhF,C;;YAEA,yBAAO,WAAP,CAAoB,gBAAO,IAAP,C;SAGhC,IAAI,cAAc,aAAa,CAA/B,C;UAAkC,yBAAO,CAAP,EAAU,EA AV,CAAe,gBAAO,EAAP,C;QAvC/B,OOx1B3B,SsHoUqC,W;;K;4C7HikB5C,yE;MACI,yBAAO,KAAP,C;MACA,IAAI,eAAc,CAAIB,C;QACI,yBAAO,EAAP,C;QACA,iBAAuC,WAAtB,UAAW,WAAW,EAAS,cAAT,EAAYB,EA AZB,C;QACR,sB;;UsB5zBzB,Q;UAAA,OAAQ,WAAR,etB4zBc,UsB5zBd,CAAQ,C AAR,W;UAAAd,OAAC,cAAAd,C;YAAc,uB;YACV,ItB2zBiD,UsB3zBnC,YtB2zBU,UsB3zBV,YAAK,KAAAL,EtB2zBmC,MAAM,EsB3zBvD,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QtBuzBC,oBAAoB,qBAAuC,CAAvC,I;QAEhB,KAAc,SAAD,IAAc,gBAAgB,CAA9B,C;UAAmC,8BAA Y,UAAZ,EAawB,CAAxB,EAA2B,aAA3B,C;;UAC3B,8BAA Y,UAAZ,EAawB,CAAxB,EAA2B,CAAC,CAAC,gBAAgB,CAAhB,IAAD,IAAsB,CAAtB,IAAD,IAA4B,CAA5B,IAA3B,C;OAGhB,yBAAO,IAAP,C;K;0CAGJ,0B;MAGwC,wB;QAAA,WAAgB,C;MIn9BxD,IAAI,EJo9BQ,YAA Y,CIp9BpB,CAAJ,C;QACI,cJm9ByB,oD;QII9BzB,MAAM,gCAAYB,OAAQ,WAAjC,C;OJm9BN,aAAa,sBAAS,IAAT,C;MACb,IAAW,WAAP,MAAO,CAAX,C;QAAyB,OAAO,MAAO,W;MACvC,OAAO,sBAAsB,MAAtB,EAAuC,eAAT,QAAS,EAAa,EAAb,CAAvC,IAAgE,UAAAL,IAAK,C;K;qCAI3E,Y;M6HvmBuB,gBAAhB,sB;M7HqnBH,IAAI,iBAAJ,C;QAAkB,yBAAO,EAAP,C;MACIB,yBAAO,IAAP,C;MAC4B,YAAAd,kB;MAxWP,YAAO,kB;MAAP,cAAqB,sB;MAArB,cAAuC,sB;MAAvC,kBAAyD,0B;MAyW5D,cACY,K;MACZ,IAAI,iBAAJ,C;QAEI,wB;OAEJ,eAAe,oB;MACf,iBAAiB,YAAW,CAAX,IAAgB,gBAAe,C;MACHd,iBAAiB,YAAW,C AAX,KAAiB,cAAc,QAA/B,C;MACjB,IAAI,QAAJ,C;QACI,yBAAO,OAAP,CAAc,gBAAO,EAAP,C;OAEIB,IAAI,UAAJ,C;QACI,yBAAO,OAAP,CAAgB,gBAAO,EAAP,C;OAEpB,IAAI,eAAe,CAAC,QAAD,IAAa,CAAC,UAA7B,CAAJ,C;QACI,mCAAiB,OAAjB,EAA0B,WAA1B,EAAuC,CAAvC,EAA0C,GAA1C,EAA2D,IAA3D,C;OApBuB,OOx7B5B,SsHoUqC,W;K;;;kC7H5YhD,Y;MAAA,c;MAuBiD,2D;MAvBjD,a;K;gCAAA,iB;MAAA,2IAuBiD,gDAvBjD,G;K;IA8hCA,qC;MAIW,Q;MAAA,IAAI,6DAAJ,C;QACH,uBAAgB,4BAAiC,oBAAL,SAAK,CAAjC,EAA2C,IAA3C,yCAAhB,C;;QAES,oBAAT,8BAAS,EA AW,IAAX,C;MAHb,W;K;IAMJ,uC;MAII,kBAAkB,4BAA4B,SAA5B,0CAAiE,IAAjE,C;MACIB,IAAa,WAAD,aAAR,yDAAsB,WAAtB,CAAJ,C;QACI,OAAO,gBAAgB,4BAA4B,SAA5B,EA AkC,IAAIC,yCAAhB,C;;QAEp,aAAa,sBAAoB,SAAPB,EAA0B,IAA1B,0C;QACb,OAAO,iBAAwB,WAAP,MAAO,yBAAsB,UAAtB,CAAxB,C;;K;IAIf,uC;MAaW,Q;MAHP,gBAAgB,oBAAoB,SAAPB,EAA0B,IAA1B,yC;MIviChB,IAAI,CJwiCI,CAAW,QAAV,SAAU,CIXiCnB,C;QACI,cJuiC0B,+B;QItiC1B,MAAM,

gCAAYB,OAAQ,WAAjC,C;OJuiCV,YAAsB,YAAV,SAAU,C;MACf,IAAI,sEAAqB,SAArB,CAAJ,C;QACH,uBA  
AgB,KAAhB,C;;QAEA,aAAwE,YAA3D,oBAaOb,SAApB,EAA0B,IAA1B,0CAA2D,C;QACxE,kCAA2B,MAA3  
B,C;;MAJJ,W;K;IAgBuB,oC;MAAQ,oE;K;IAOP,sC;MAAQ,sE;K;IAWN,sC;MAAQ,sE;K;IAQV,qC;MAAQ,qE;K  
;IAOP,uC;MAAQ,uE;K;IAWN,uC;MAAQ,uE;K;IAQX,qC;MAAQ,qE;K;IAOP,uC;MAAQ,uE;K;IAWN,uC;MAA  
Q,uE;K;IAQhB,gC;MAAQ,gE;K;IAOP,kC;MAAQ,kE;K;IAWN,kC;MAAQ,kE;K;IAQX,gC;MAAQ,gE;K;IAOP,k  
C;MAAQ,kE;K;IAWN,kC;MAAQ,kE;K;IAQb,8B;MAAQ,8D;K;IAOP,gC;MAAQ,gE;K;IAWN,gC;MAAQ,gE;K;I  
AQZ,6B;MAAQ,6D;K;IAOP,+B;MAAQ,+D;K;IAWN,+B;MAAQ,+D;K;yEAG/B,+B;MAIqE,8BAAW,SAAX,C;  
K;2EAERe,+B;MAUwE,8BAAW,SAAX,C;K;IAIxE,yC;MACl,aAAa,KAAM,O;MACnB,IAAI,WAAU,CAAd,C;Q  
AAiB,MAAM,gCAAYB,qBAAzB,C;MACvB,YAAy,C;MACZ,aAAa,gCAAS,K;MACtB,qBAAqB,U;MACrB,QA  
AM,iBAAM,KAAN,CAAN,C;aACl,E;aAAa,E;UAAy,qB;UAAZ,K;;MAEJ,cAAc,QAAQ,C;MACtB,iBAAiB,WA  
AiB,aAN,KAAM,EAAW,EAAX,C;MAE9B,cAAU,KAAV,C;QACl,MAAM,gCAAYB,eAAzB,C;WACV,qBAA  
M,KAAN,MAAgB,EAhB,C;QACl,IAAI,mCAAW,MAAf,C;UAAuB,MAAM,+B;QAC7B,sBAAsB,K;QACtB,sB  
AAsB,K;QACtB,eAA8B,I;QAC9B,OAAO,QAAQ,MAAf,C;UACl,IAAI,iBAAM,KAAN,MAAgB,EAAPB,C;YAC  
l,IAAI,mBAAMB,mCAAW,MAAIC,C;CAA0C,MAAM,+B;YACHd,kBAakB,I;YAClB,Q;WAEkB,iBAaE,K;UA+  
EjD,QAHgC,U;UAIhC,Y;YAAO,eAhFqB,KAgFjB,O;YAAJ,S;cAAc,SAAU,YAhFH,KAGFG,YAAK,CAAL,E;cA  
AV,OAhFqC,CAAM,kBAAK,EAAL,CAAN,qCAakB,2C;;YAgFnC,a;;UAhF7B,gBAAGB,KiBvlCgE,WjBmqClF,  
UiBnqCkF,EjBwqCrF,CiBxqCqF,C;UjBwlChF,IAAI,SuBrhCgC,YAAU,CvBqhC9C,C;YAAyB,MAAM,+B;UAC/  
B,gBAAS,SAAU,OAAAnB,I;UACqB,cAAU,K;UsBzrCpC,U;UAAA,IAAI,WAAS,CAAT,IAAc,WAAS,iBtByrCP,K  
sBzrCO,CAA3B,C;YAAA,StByrCoB,KsBzrCkB,YAAI,OAAJ,C;;YtByrCO,MAAM,gCAAYB,qCAAzB,C;;UAA9  
C,qB;UACA,qB;UACA,WAAW,sBAAsB,QAAtB,EAAGC,eAAhC,C;UACX,IAAI,YAAy,IAAZ,IAAoB,yBAAy,I  
AAZ,MAAxB,C;YAA0C,MAAM,gCAAYB,yCAAzB,C;UACHd,WAAW,I;UACX,eAAyB,WAAV,SAAU,EAAQ,  
EAAR,C;UACzB,IAAI,+CAAGC,WAAW,CAA/C,C;YACl,YAAy,SiBjmCgE,WjBimC5C,CiBjmC4C,EjBimCzC,  
QiBjmCyC,C;YjBkmC5E,4BAA2C,aAAjC,0BAA0B,KAA1B,CAAiC,EAAW,IAAX,CAA3C,C;YACA,4BAAMd,  
aAAX,SAA9B,SiBtmCmD,WjBsmC/B,QiBtmC+B,CjBsmCrB,CAAW,EAAW,IAAX,CAAnD,C;;YAEA,4BAA+C  
,aAArC,0BAA0B,SAA1B,CAAqC,EAAW,IAAX,CAA/C,C;;aAIZ,c;QACl,MAAM,+B;;QACV,IAAM,cAAN,KA  
AM,EAAC,KAAd,EAAqB,cAArB,EAAqC,CAArC,EQ/xCH,MAAO,KR+xCmD,SAAS,KAAT,IQ/xCnD,ER+xCm  
E,cAAe,OQ/xClF,CR+xCJ,EAA4G,IAA5G,CAAN,C;UACl,SAAS,gCAAS,S;;UAIIb,iBAA8B,I;UAC9B,iBAAiB,  
K;UACjB,kBAakB,CAAC,O;UACnB,IAAI,WAAW,iBAAM,KAAN,MAAgB,EAA3B,IAAwC,QAAN,KAAM,C  
AAN,KAAGB,EAAtD,C;YACl,cAAc,I;YACd,IAAI,oCAAW,uBAAX,EAAW,MAAX,CAAJ,C;cAAyB,MAAM,g  
CAAYB,eAAzB,C;WAEnc,OAAO,QAAQ,MAAf,C;YACl,IAAI,cAAc,WAAIB,C;cA8CZ,UA7CwC,K;cA8CxC,Y  
;gBAAO,mBA9CiB,KA8Cb,O;gBAAJ,W;kBAAc,SA9C4B,UA8CIB,YA9CP,KA8CO,YAAK,GAAL,EA9CkB,M  
AAM,E;;gBA8Cd,iB;;cA9CzB,QA+CT,G;aA7CK,aAAa,I;YACS,mBAaE,K;YA0CjD,UAHGC,Y;YAIhC,Y;cAA  
O,mBA3CqB,KA2CjB,O;cAAJ,W;gBAAC,WAAU,YA3CH,KA2CG,YAAK,GAAL,E;gBAAV,SA3CqC,CAAM,k  
BAAK,EAAL,CAAN,uCAakB,oBAAM,E;;cA2CzC,iB;;YA3C7B,kBAAGB,KiB5nCGE,WjBmqClF,YiBnqCkF,Ej  
BwqCrF,GiBxqCqF,C;YjB6nChF,IAAI,WuB1jCgC,YAAU,CvB0jC9C,C;cAAyB,MAAM,+B;YAC/B,gBAAS,WA  
AU,OAAAnB,I;YACqB,mBAaE,K;YAUChD,UAHGc,Y;YAIhC,Y;cAAO,mBAxCoB,KAwChB,O;cAAJ,W;gBAAC,  
WAAU,YAxCj,KAwCI,YAAK,GAAL,E;gBAAV,SAXCoC,CAAM,kBAAK,GAAL,CAAN,mC;;cAwChB,iB;;YA  
x7B,eAAe,KiB/nCiE,WjBmqClF,YiBnqCkF,EjBwqCrF,GiBxqCqF,C;YjBgoChF,gBAAS,QAAS,OAAIB,I;YAC  
A,aAAW,wBAAwB,QAAXB,C;YACX,IAAI,cAAy,IAAZ,IAAoB,2BAAy,MAAZ,MAAxB,C;cAA0C,MAAM,gC  
AAyB,yCAAzB,C;YACHd,aAAW,M;YACX,iBAAyB,WAAV,WAAU,EAAQ,EAAR,C;YACzB,IAAI,aAAW,CA  
Af,C;cACl,cAAy,WiBtoCgE,WjBsoC5C,CiBtoC4C,EjBsoCzC,UiBtoCyC,C;cjBuoC5E,4BAAyB,aAAT,OAAO,  
AAM,CAAS,EAAW,MAAX,CAAzB,C;cACA,4BAAMd,aAAX,SAA9B,WiB3oCmD,WjB2oC/B,UiB3oC+B,CjB  
2oCrB,CAAW,EAAW,MAAX,CAAnD,C;cACA,IAAI,QAAQ,MAAZ,C;gBAaOb,MAAM,gCAAYB,mCAAzB,C;;  
cAE1B,4BAA6B,aAAT,OAAV,WAAU,CAAS,EAAW,MAAX,CAA7B,C;;;MAKhB,OAAW,UAAJ,GAAiB,MA  
AD,aAAhB,GAA6B,M;K;IAIXC,0C;MACl,aAAa,KAAM,O;MACnB,iBAAiB,C;MACjB,IAAI,SAAS,CAAT,IAA  
c,YAAy,IAAZ,mBAAM,CAAN,EAAlB,C;QAAoC,+B;OACHC,YAAC,SAAS,UAAT,IAAD,IAAwB,E;MAAxB,S  
;QAA4D,gBAA7B,yBAakB,iBAAN,KAAM,CAAlB,C;QAA6B,c;;UU4ThD,U;UADhB,IAAI,wCAAsB,mBAA1B  
,C;YAAqC,aAAO,I;YAAP,e;WACrB,6B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CV5T4C,CAAa,



kBAAK,EAAL,CAAb,oCU4TjC,OV5TiC,EU4ThD,C;cAAyB,AAAO,K;cAAP,e;;UAC/C,AAAO,I;;;QV7TyD,iB;O  
AAhE,S;QAEI,OAAW,iBAAM,CAAN,MAAY,EAhB,sD;OAGX,OAAiB,WAAN,KAAM,EAAW,GAAX,CAAV  
,GAAyC,OAAR,QAAN,KAAM,EAAC,CAAL,CAAQ,CAAzC,GAA6D,OAAAN,KAAM,C;K;IAKxE,0D;MAII,QA  
HgC,U;MAIhC,OAAO,IAAI,gBAAJ,IAJqC,SAIvB,CAAU,iCAAK,CAAL,EAAV,CAArB,C;QAAyC,a;MAJzC,O  
iBnqC4F,oBjBmqClF,UiBnqCkF,EjBwqCrF,CiBxqCqF,C;K;IjBqqChG,qD;MACI,QAAQ,U;MACR,OAAO,IAAI,  
gBAAJ,IAAc,UAAU,iCAAK,CAAL,EAAV,CAArB,C;QAAyC,a;MACzC,OAAO,C;K;IAmBX,8B;MAA+C,q  
CAAQ,OAAR,E;K;IAC/C,+B;MAAgD,2CAAS,OAAT,E;K;IAEhD,sC;MAAiD,oBAAS,sBAAGB,CAAhB,CAAT,  
C;K;IACjD,wC;MAAmD,oBAAU,uBAAiB,CAAJB,CAAD,yBAAuB,CAAvB,EAAT,C;K;IACnD,oD;MAAoE,oB  
AAU,sBAAGB,CAAhB,CAAD,yBAAsB,iBAAtB,EAAT,C;K;IACpE,0C;MACI,IAAI,sEAAqB,SAArB,CAAJ,C;Q  
AAA,OACI,gBAAGB,KAAhB,C;;QADJ,OAGI,iBAAiB,cAAc,KAAAd,CAAJB,C;;K;IAGR,4C;MACI,IAAI,kEAAg  
C,mBAAhC,CAAJ,C;QAAA,OACI,gBAAGB,cAAc,MAAd,CAAhB,C;;QADJ,OAGI,iBAAwB,WAAP,MAAO,yB  
AAsB,UAAAtB,CAAxB,C;;K;IuMI3CR,8B;MAEGD,QAAM,SAAN,M;aAC5C,a;UAD4C,OACbB,I;aAC5B,c;UAF4  
C,OAEf,I;aAC7B,c;UAH4C,OAGf,I;aAC7B,S;UAJ4C,OAIpB,G;aACxB,S;UAL4C,OAKpB,G;aACxB,O;UAN4C,  
OAMtB,G;aACtB,M;UAP4C,OAObV,G;gBnMuEwB,MAAM,6BAA8B,CmMtEnE,mBAAGB,SnMsEmD,YAA9B,  
C;;K;ImMnEvD,4C;MACwE,QAAM,SAAN,C;aACpE,I;UADoE,6C;aAEpE,I;UAFoE,8C;aAGpE,I;UAHoE,8C;aA  
IpE,G;UAJoE,yC;aAKpE,G;UALoE,yC;aAMpE,G;UANoE,uC;aAOpE,G;UAPoE,sC;gBAQ5D,MAAM,gCAAyB,  
uCAAoC,SAA7D,C;;K;IAGIB,yD;MAGQ,KAAC,eAAD,C;QAEQ,IADE,OACF,Q;UAHZ,sC;;UAIoB,MAAM,gC  
AAyB,4EAAqD,OAARd,CAAZB,C;;QAIIB,QAAM,OAAAN,C;eACI,E;YATZ,uC;eAUyE,YAVZ,yC;eAWY,E;YA  
XZ,yC;kBAyO,MAAM,gCAAyB,yDAAC,OAAlC,CAAZB,C;;K;IC5F9B,4B;K;;MC4BI,kC;;IAXA,gC;MAAA  
,oC;MAM0B,2BAAc,iC;K;8CACpC,Y;MAAKC,OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;IAN1B,4C;MA  
AA,2C;QAAA,0B;OAAA,oC;K;IAWA,gC;MAAA,oC;K;;IAAA,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;;IAKJ,o  
B;K;qCAcI,oB;MAK8D,4BAAiB,IAAJB,EAABuB,QAABvB,C;K;sCAE9D,oB;MAK+D,wBAAM,QAAD,aAAL,C;K  
;sCAG/D,Y;MAMqC,QAAC,iBAAa,a;K;yCAEnD,Y;MAMwC,OAAA,iBAAa,a;K;;4EAIzD,yB;MAAA,4C;MAA  
A,mC;QAQuE,MAAM,WAAM,0BAAN,C;O;KAR7E,C;mFAUA,yB;MAAA,4C;MAAA,mC;QAQsE,MAAM,WA  
AM,0BAAN,C;O;KAR5E,C;IAY8B,4C;MAAiD,mB;MAAhD,gB;MAAoB,4B;K;4CAC/C,Y;MAAsC,OAAA,SAA  
K,aAAL,cAAoB,eAApB,C;K;6CAEtC,oB;MAAKD,4BAAiB,SAAJB,EAABuB,4BAAa,QAAb,CAAvB,C;K;;IChGV  
,sC;MAAC,gB;K;IAOf,4E;MAA8G,mB;MAA7G,4B;MAA6B,8B;MAAgD,sB;K;+DACpG,Y;MAAsC,OAAgC,aA  
A/B,iBAAW,OAAX,UAAoB,gBAAPB,CAA+B,EAAW,iBAAW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;gEACtC,o  
B;MAAKD,+CAAa,gBAAb,EAABwB,iBAABx,EAAsC,0BAAS,QAAT,CAApC,C;K;;+CAGtD,Y;MAAmC,+CAAa  
,WAAb,EAABqB,IAArB,EAAB2B,gCAAS,KAAPC,C;K;;IAUO,wC;MAAC,gB;K;IAOf,gF;MAAKH,mB;MAAJH,4B  
;MAA+B,8B;MAAKD,sB;K;mEAC1G,Y;MAAsC,OAAgC,AA/B,iBAAW,OAAX,GAAoB,gBAAW,EAAW,iBA  
AW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;oEACtC,oB;MAAKD,mDAAE,gBAAf,EAAB0B,iBAA1B,EAAsC,0BAA  
S,QAAT,CAAtC,C;K;;iDAGtD,Y;MAAmC,mDAAE,WAAf,EAABuB,IAAvB,EAAB6B,gCAAS,KAAtC,C;K;;IAGvC  
,0B;MAGB8B,yE;MAC1B,mB;K;oCAEA,Y;MAA4B,qB;K;iDAE5B,oB;MAWc,Q;MADV,gBAAGB,QAAS,gBAA  
O,SAAP,C;MACf,IAAI,gDAA+B,4CAAN,C;QAEN,iBAAiB,mBAAU,SAAV,C;QACjB,IAAI,mBAAY,SAAZ,g  
BAAYB,CAAzB,IAA8B,mBAAY,UAAZ,eAAyB,CAA3D,C;UAA8D,gBAAS,QAAT,C;QAC9D,iB;;QAEA,YAA  
Y,QAAS,kBAAS,SAAT,C;QAErB,mBAAiB,4BAAU,K;QAC3B,IAAI,sDAA+B,kDAAN,C;UAAgE,gBAAS,QA  
AT,C;QACrD,8BAAX,YAAW,C;;MAVf,qB;K;0CACJ,oB;MACI,MAAM,6BAAsB,iDAA+C,cAA/C,qCAA0E,QA  
A1E,MAAtB,C;K;;qFC7Fd,yB;MAAA,yC;MAAA,wB;QA2BI,WAAW,8B;QAhB6B,KAIbxC,E;QAJBA,OAKBO,I  
AAK,a;O;KA7BhB,C;uFAeA,4B;MAYI,WAAW,mB;MACX,O;MACA,OAAO,IAAK,a;K;IAYe,qC;MAAC,kB;M  
AAc,wB;K;;sCAR9C,Y;MAQgC,iB;K;sCARhC,Y;MAQ8C,oB;K;wCAR9C,2B;MAAA,sBAQgC,qCARhC,EAQ8  
C,8CAR9C,C;K;oCAAA,Y;MAAA,OAQgC,iDARhC,IAQ8C,8CAR9C,O;K;oCAAA,Y;MAAA,c;MAQgC,sD;MA  
Ac,yD;MAR9C,a;K;kCAAA,iB;MAAA,4IAQgC,sCARhC,IAQ8C,4CAR9C,I;K;iGAUA,yB;MAAA,yC;MAGBA,8  
C;MAhBA,wB;QA6BI,WAAW,8B;QACX,aAJB8C,KAIbJ,C,E;QAJBb,OAKBO,oBAAW,MAAX,EAAMB,IAAK,a  
AAxB,C;O;KA/BX,C;mGAgBA,yB;MAAA,8C;MAAA,mC;QAaI,WAAW,mB;QACX,aAAa,O;QACb,OAAO,oB  
AAW,MAAX,EAAMB,IAAK,aAAxB,C;O;KAFX,C;IxJZA,2E;MASI,sC;MAAA,4C;K;IATJ,mGAWY,Y;MAAQ,2  
B;KAXpB,E;IAAA,4DAaQ,kB;MACI,wBAAW,MAAX,C;K;IAdZ,wF;IyJewC,sC;MACpC,0B;K;;IAGJ,kC;MAUI  
,OAA2C,CAA3C,2BAA6B,uBAA7B,EAAsC,KAAPC,CAA2C,e;K;IAE/C,8B;K;kDAuBI,4B;MASI,MAAM,qCA

A8B,8CAA9B,C;K;;IAa4B,8C;MAGtC,6B;MAEmD,UAMX,M;MAPxC,kBACmD,mE;MAEnD,eAC0B,K;MAE1  
B,cACwC,kE;MAExC,gBACmC,gB;K;iGAG/B,Y;MAAQ,0C;K;0DAEZ,kB;MACI,cAAy,I;MACZ,gBAAc,M;K;I  
AGsE,iG;MAAA,uB;QAExE,Q;QAAZ,qCAAY,8D;QACZ,sCAAa,a;QAFb,OAGA,yB;O;K;2DAJJ,+B;MAAkD,O  
AAsC,wDAAtC,c;K;IAOyE,uH;MAAA,uB;QAEExG,Q;QAAf,iBAaE,8F;QACf,eAAK,2B;QAA6B,mC;QrMjGtB,g  
BAAT,Q;QqMsG0D,kB;QAJzD,sBAAsB,SAAK,W;QAC3B,IAAI,eAAa,eAAjB,C;UAEL,iC;UACA,mBAAY,oCA  
AwB,eAAxB,EAAYC,kEAzC,C;;UAGZ,mBAAY,kE;;QAEhB,oBAaA,e;QAZjB,OAcA,yB;O;K;6DAfJ,0C;MAA  
qF,OAAc,qEAAtC,c;K;IAqBzB,mI;MAAA,qB;QACxD,yCAAgB,uB;QAGhB,qCAAY,Y;QACZ,uCAAc,E;QACI  
B,W;O;K;iEATA,iC;MAGwB,wCAAa,mCAAb,EAoC,kFAApC,C;K;mDAQxB,Y;MAMuB,UADC,MACD,EAI  
H,MAJG,EAaK,M;MAjBxB,OAAO,IAAP,C;QAEI,aAAa,IAAK,S;QACF,SAAL,IAAK,O;QAAL,mB;UACyB,gB  
AArB,0D;UIJxBhB,U;UADP,yB;U0JyBe,OIJxBR,sF;S0JuBC,WAAW,M;QAGX,IAAI,mDAAoB,MAApB,QAAJ  
,C;;YAIiB,SAAT,exJxJV,CwJwJuD,IxJxJvD,EwJwJ6D,YxJxJ7D,EwJwJoE,IxJxJpE,EAA8C,KAA9C,C;;YwJyJQ,  
gC;cACE,IzJzJhB,oBDgDQ,WAAO,c0JyG0B,C1JzG1B,CAAP,CChDR,C;cyJ0JgB,Q;;cALI,O;;UAAR,c;UAQA,I  
AAI,MAAM,yBAAV,C;YACI,IzJvKhB,oBDgDQ,W0JuHoB,0E1JvHpB,CChDR,C;;UyJ0KY,gBAAc,gB;UACd,I  
AAK,oBAAW,MAAX,C;;K;;0EC1MrB,4B;MAoKI,QAhKK,SAGKG,GAhKoB,KAgKpB,I;MACR,IAAI,CAjKC,  
SAiKD,GAjKwB,KAiKxB,IAAiB,CAAjB,IAAsB,eAjKE,KAiKF,MAjKrB,SAiKL,C;QAA6C,a;OAJ7C,OAKKO,  
C;K;KEAhKX,yB;MAAA,0B;MAAA,mC;QA2KI,QAnKK,SAmKG,GAnKe,K;QAAvB,OAAgC,OAoKzB,KApKg  
B,KAOkX,GAAW,CAAC,CAAC,IAPkF,KAOkC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,  
EAAID,KApKyB,C;O;KARpC,C;4EAUA,4B;MAoJI,QAhJK,SAGJG,GAhJoB,KAgJpB,I;MACR,IAAI,CAjJC,SAi  
JD,GAjJwB,KAiJxB,IAAiB,CAAjB,IAAsB,eAjJE,KAiJF,MAjJrB,SAiJL,C;QAA6C,a;OAJ7C,OAKJO,C;K;KEAhJ  
X,yB;MAAA,4B;MAAA,mC;QA2JI,QAnJK,SAmJG,GAnJe,K;QAAvB,OAAgC,QAoJzB,KApJgB,KAOjX,GAA  
W,CAAC,CAAC,IAPJF,KAOJC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,KApJyB,  
C;O;KARpC,C;4EAUA,4B;MAoII,QAhIK,SAGIG,GAhIc,KAgId,I;MACR,IAAI,CAjIC,SAiID,GAjIkB,KAiIB,IA  
AiB,CAAjB,IAAsB,eAjII,KaiII,MAjIrB,SAiIL,C;QAA6C,a;OAJ7C,OAKIO,C;K;KEAhIX,4B;MA2II,QAnIK,SA  
mIG,GAnIS,K;MAAjB,OAoIO,KApIU,KAOIL,GAAW,CAAC,CAAC,IAPIR,KAOIO,KAAmB,KAAK,CAAC,CA  
AD,IAAL,CAAnB,CAAD,KAAkC,EAAID,K;K;4EAIIX,yB;MAqMA,0B;MArMA,mC;QAIkB,kBAAT,oBAAL,S  
AAK,C;QAqML,QAAQ,gBArMe,KAAqMf,C;QACR,IAAI,gBatMmB,KAsMnB,eAAiB,CAAjB,IAAsB,mBatMH,  
KAsMG,GAAa,WAAb,CAA1B,C;UAA6C,W;SatM7C,OAuMO,C;O;KA3MX,C;KEAMA,4B;MAGNI,QAxMK,o  
BAAL,SAAK,CAwMG,QAxMU,KAwMV,C;MAxMR,OAyMO,MAzMW,KAYMN,KAAa,MAzMP,KAYMO,CA  
AD,KAAmB,KAAm,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC,CAAX,CAAL,C;K;4EAvmX,4B;MAoGI,QA  
hGK,SAGGG,GAhGoB,KAgGpB,I;MACR,IAAI,CAjGC,SAiGD,GAjGwB,KAiGxB,IAAiB,CAAjB,IAAsB,eAjGE  
,KAIgF,MAjGrB,SAiGL,C;QAA6C,a;OAJ7C,OAKGO,C;K;KEAhGX,yB;MAAA,0B;MAAA,mC;QA2GI,QAnG  
K,SAmGG,GAnGe,K;QAAvB,OAAgC,OAoGzB,KApGgB,KAOGX,GAAW,CAAC,CAAC,IAPGF,KAOGC,KAA  
mB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,KApGyB,C;O;KARpC,C;4EAUA,4B;MAoFI,Q  
AhFK,SAGFG,GAhFoB,KAgFpB,I;MACR,IAAI,CAjFC,SAiFD,GAjFwB,KAiFxB,IAAiB,CAAjB,IAAsB,eAjFE,  
KAIFF,MAjFrB,SAiFL,C;QAA6C,a;OAJ7C,OAKFO,C;K;KEAhFX,yB;MAAA,4B;MAAA,mC;QA2FI,QAnFK,S  
AmFG,GAnFe,K;QAAvB,OAAgC,QAofzB,KApFgB,KAOFX,GAAW,CAAC,CAAC,IAPFF,KAOFC,KAAmB,KA  
AK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,KApFyB,C;O;KARpC,C;4EAUA,4B;MAoEI,QAhEK,S  
AgEG,GAhEc,KAgEd,I;MACR,IAAI,CAjEC,SAIED,GAjEkB,KAIeIB,IAAiB,CAAjB,IAAsB,eAjEJ,KAIeI,MAjE  
rB,SAiEL,C;QAA6C,a;OAJ7C,OAKEO,C;K;KEAhEX,4B;MA2EI,QAnEK,SAmEG,GAnES,K;MAAjB,OAoEO,K  
ApEU,KAOEL,GAAW,CAAC,CAAC,IAPER,KAOEO,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAA  
kC,EAAID,K;K;4EAIEX,yB;MAqIA,0B;MArIA,mC;QAIkB,kBAAT,oBAAL,SAAK,C;QAqIL,QAAQ,gBArIe,KA  
qIf,C;QACR,IAAI,gBatImB,KAsInB,eAAiB,CAAjB,IAAsB,mBatIH,KAsIG,GAAa,WAAb,CAA1B,C;UAA6C,  
W;Sat7C,OAuIO,C;O;KA3IX,C;KEAMA,4B;MAGJI,QAxIK,oBAAL,SAAK,CAwIG,QAxIU,KAwIV,C;MAxIR,  
OAyIO,MAzIW,KAYIN,KAAa,MAZIP,KAYIO,CAAD,KAAmB,KAAm,CAAD,aAAL,CAAnB,CAAD,YAAkC,E  
AAIC,CAAX,CAAL,C;K;2EAvIX,4B;MAoCI,QAhCA,SAGCQ,GAhCY,KAGCZ,I;MACR,IAAI,CAjCJ,SAiCI,GA  
jCgB,KAIChB,IAAiB,CAAjB,IAAsB,eAjCN,KAIcM,MAjC1B,SAiCA,C;QAA6C,a;OAJ7C,OAKCO,C;K;iEAhC  
X,yB;MAAA,0B;MAAA,mC;QA2CI,QAnCA,SAmCQ,GAnCO,K;QAAf,OAAwB,OAoCjB,KApCQ,KAOCH,GA  
AW,CAAC,CAAC,IAPCV,KAOCS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,KApCi

B,C;O;KAR5B,C;4EAU,4B;MAoBI,QAhBA,SAGBQ,GAhBY,KAGBZ,I;MACR,IAAI,CAjBJ,SAiBI,GAjBgB,K  
AiBhB,IAAiB,CAAjB,IAAsB,eAjBN,KAiBM,MAjB1B,SAiBA,C;QAA6C,a;OAJB7C,OAKBO,C;K;mEAhBX,yB;  
MAAA,4B;MAAA,mC;QA2BI,QAnBA,SAmBQ,GAnBO,K;QAaf,OAAwB,QAoBjB,KApBQ,KAoBH,GAAW,C  
AAC,CAAC,IApBV,KAoBS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,KApBiB,C;O  
;KAR5B,C;4EAU,4B;MAII,QAAQ,YAAO,KAAP,I;MACR,IAAI,aAAS,KAAT,IAAiB,CAAjB,IAAsB,eAAI,KA  
AJ,MAAa,SAAvC,C;QAA6C,a;OAC7C,OAAO,C;K;mEAGX,4B;MAQI,QAAQ,YAAO,K;MACf,OAAO,KAAK,  
QAAW,CAAC,CAAC,IAAM,KAAP,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAID,K;K;  
4EAGX,yB;MAGeA,0B;MAhEA,mC;QAiKb,kBAAT,oBAAL,SAAK,C;QAgEL,QAAQ,gBAhEe,KAgEf,C;QACR  
,IAAI,gBAjEmB,KAiEnB,eAAiB,CAAjB,IAAsB,mBAjEH,KAiEG,GAAa,WAAb,CAA1B,C;UAA6C,W;SAjE7C,  
OAKEO,C;O;KAtEX,C;KEAMA,4B;MA2EI,QAnEK,oBAAL,SAAK,CAmEG,QAnEU,KAmEV,C;MAnER,OAoE  
O,MApEW,KAoEN,KAAa,MApEP,KAoEO,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAA  
IC,CAAX,CAAL,C;K;6EAIEX,yB;MAGDA,0B;MAhDA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgDpB,QAhDA,S  
AgDQ,KAAO,OAAP,C;QACR,IAjDA,SAiDI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjD1B,SAiD  
0B,CAA1B,C;UAA6C,W;SAjD7C,OAKDO,C;O;KAtDX,C;mEAMA,yB;MAAA,0B;MAAA,mC;QAQS,cAAU,oB  
AAN,KAAM,C;QAmDf,QAnDA,SAmDQ,QAAO,OAAP,C;QAnDR,OAAYB,OAoDIB,MAAK,YAAa,MAAM,OA  
AN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC,CAAX,CAAL,CAPdkB,S;O;KAR7B,  
C;6EAU,yB;MAGCA,0B;MAhCA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgCpB,QAhCA,SAGCQ,KAAO,OAAP,  
C;QACR,IAjCA,SAiCI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjC1B,SAiC0B,CAA1B,C;UAA6C  
,W;SAjC7C,OAKCO,C;O;KAtCX,C;mEAMA,yB;MAAA,4B;MAAA,mC;QAQS,cAAU,oBAAN,KAAM,C;QAmC  
f,QAnCA,SAmCQ,QAAO,OAAP,C;QAnCR,OAAYB,QAoCIB,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,K  
AAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC,CAAX,CAAL,CAPckB,S;O;KAR7B,C;6EAU,yB;MAGBA  
,0B;MAhBA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgBpB,QAhBA,SAGBQ,KAAO,OAAP,C;QACR,IAjBA,SAiB  
I,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjB1B,SAiB0B,CAA1B,C;UAA6C,W;SAjB7C,OAKBO,  
C;O;KAtBX,C;mEAMA,4B;MAQS,cAAU,oBAAN,KAAM,C;MAmBf,QAnBA,SAmBQ,QAAO,OAAP,C;MAnB  
R,OAoBO,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC  
,CAAX,CAAL,CAPbkB,Q;K;6EAE7B,yB;MAAA,0B;MAAA,mC;QAII,QAAQ,cAAO,KAAP,C;QACR,IAAI,cA  
AS,KAAT,eAAiB,CAAjB,IAAsB,mBAAI,KAJ,GAAa,SAAb,CAA1B,C;UAA6C,W;SAC7C,OAAO,C;O;KANX,  
C;mEASA,4B;MAQI,QAAQ,iBAAO,KAAP,C;MACR,OAAO,MAAK,UAAa,MAAM,KAAN,CAAD,KAAmB,K  
AAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC,CAAX,CAAL,C;K;kEAGX,yB;MpGiqB2C,iB;MoGjqB3C,m  
C;QAUI,QAAQ,YAAO,K;QACJ,iBAAS,G;QAAT,S;UAAAsB,OpGspBc,MAAiC,MoGtpB/C,CpGspB+C,CoGtpB/  
C,KpGspBc,MAAiC,MoGtpBrC,KpGspBqC,C;SoGtpBhF,OAAO,OAAGD,IAAI,KAAPD,GAA+D,C;O;KAX1E,C;  
mEAca,yB;MpG0I6C,iB;MoG1I7C,mC;QAKCI,QAxBK,SAwBG,GAXBY,K;QAYBT,iBAAK,G;QAAL,S;UAAAY,  
OpGuG0B,MAAW,MoGvGrC,CpGuGqC,CoGvGrC,KpGuG0B,MAAW,MoGhIxC,KpGglwC,C;SoGhI5D,OAYB  
O,OAAsC,IAZbZB,KAYbB,GAAqD,C;O;KANChE,C;mEAYA,yB;MpG8H6C,iB;MoG9H7C,mC;QASBI,QAZA,S  
AYQ,GAZO,K;QAaJ,iBAAK,G;QAAL,S;UAAAY,OpGuG0B,MAAW,MoGvGrC,CpGuGqC,CoGvGrC,KpGuG0B,  
MAAW,MoGpH7C,KpGoH6C,C;SoGpH5D,OAaO,OAAsC,IAb9B,KAAr,GAAqD,C;O;KAVhE,C;mEAYA,yB;  
MpGkH6C,iB;MoGIH7C,mC;QAUI,QAAQ,YAAO,K;QACJ,iBAAK,G;QAAL,S;UAAAY,OpGuG0B,MAAW,MoG  
vGrC,CpGuGqC,CoGvGrC,KpGuG0B,MAAW,MoGvG3B,KpGuG2B,C;SoGvG5D,OAAO,OAAsC,IAAI,KAA1C,  
GAAqD,C;O;KAXhE,C;4ECnTA,yB;MAAA,8B;MAAA,4B;QAoyC,Q;QAAA,gFAAoB,C;O;KAP7D,C;ICM0B,4  
C;MA+CtB,qC;MA/CuB,kB;MAAgB,kB;MAAgB,kB;MAMvD,iBAAsB,iBAAU,UAAV,EAAiB,UAAjB,EAAwB,  
UAAxB,C;K;0CAEtB,+B;M3MWA,IAAI,E2MViB,CAAT,sBAAY,GAAZ,KAA4C,CAAT,sBAAY,GAA/C,MAA  
+E,CAAT,sBAAY,GAAIF,C3MUR,CAAJ,C;QACI,c2MVI,2E;Q3MWJ,MAAM,gCAAYB,OAAQ,WAAjC,C;O2M  
TN,OAAO,CAAA,KAAM,IAAI,EAAV,KAAgB,KAAM,IAAI,CAA1B,IAA+B,KAA/B,I;K;uCAGX,Y;MAGkC,O  
AAE,UAAF,oBAAS,UAAT,SAAGB,U;K;qCAEID,iB;MAEWB,gB;MADpB,IAAI,SAAS,KAAb,C;QAAoB,OAAO  
,I;MACP,iE;MAAD,mB;QAA6B,OAAO,K;OAAvD,mBAAmB,M;MACnB,OAAO,IAAK,UAAAL,KAAgB,YAAa,  
U;K;uCAGxC,Y;MAA+B,qB;K;8CAE/B,iB;MAAoD,wBAAU,KAAM,UAAhB,I;K;gDAEPD,wB;MAKI,OAAA,I  
AAK,MAAL,GAAa,KAAb,KAAuB,IAAK,MAAL,KAAc,KAAd,IACf,IAAK,MAAL,IAAc,KADtB,C;K;gDAGJ,+  
B;MAKI,OAAA,IAAK,MAAL,GAAa,KAAb,KAAuB,IAAK,MAAL,KAAc,KAAd,KACd,IAAK,MAAL,GAAa,K

AAb,KAAsB,IAAK,MAAL,KAAC,KAAd,IACf,IAAK,MAAL,IAAc,KADrB,CADc,CAAvB,C;K;IAIJ,mC;MAAA ,uC;MACI,2BAIuC,G;MAEvC,eAIoC,uCAA0B,M;K;;IAXIE,+C;MAAA,8C;QAAA,6B;OAAA,uC;K;;IA9CA,iD; MAAA,uD;MAG6C,0BAAK,KAAL,EAAY,KAAZ,EAAMb,CAAnB,C;MAH7C,Y;K;IA6DJ,qC;MAAA,yC;K;8C AEI,Y;MAC2B,yBAAc,CAAd,EAaiB,CAAjB,EAaOb,EAAPb,C;K;;IAH/B,iD;MAAA,gD;QAAA,+B;OAAA,yC ;K;4FCxDI,yB;MAAA,2D;MAAA,4B;QAAQ,MAAM,6BAAoB,6BAAPb,C;O;KAAd,C;;;ICSJ,uB;MAG2C,+BA AoB,KAAPb,C;K;4EAE3C,wC;MAO4F,sB;K;IAE5F,6C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,2C;MAAA,8C ;O;MAKI,wF;MAKA,sF;MAMA,wE;K;;IAXA,yD;MAAA,iC;MAAA,iD;K;;IAKA,wD;MAAA,iC;MAAA,gD;K;;I AMA,iD;MAAA,iC;MAAA,yC;K;;IAhBJ,uC;MAAA,iJ;K;;IAAA,4C;MAAA,a;AAAA,c;UAAA,sD;aAAA,a;UAA A,qD;aAAA,M;UAAA,8C;gBAAA,gE;;K;;IAyBA,+B;MAAA,mC;K;;IAAA,2C;MAAA,0C;QAAA,yB;OAAA,m C;K;IAGoC,qC;MACHc,qBAAsC,W;MACtC,gBAA2B,iC;K;uFAGvB,Y;MAMW,Q;MALP,IAAI,kBAAW,iCAAF ,C;QACI,gBAAS,mC;QACT,qBAAc,I;OAGIB,OAAO,gF;K;6CAGf,Y;MAAwC,yBAAW,iC;K;wCAEnD,Y;MAA kC,OAAI,oBAAJ,GAA2B,SAAN,UAAM,CAA3B,GAA2C,iC;K;8CAE7E,Y;MAAkC,+BAAoB,UAApB,C;K;;IA GG,oC;MAAC,4B;K;wEAAA,Y;MAAA,2B;K;kDAEtC,Y;MAAwC,W;K;6CAExC,Y;MAAkC,OAAM,SAAN,UA AM,C;K;;oFC2C5C,yB;MAAA,gD;MAAA,4B;QAM6C,OAAmB,aAaIB,YAA,Y,GAAM,C;O;KANhE,C;oGAQA, yB;MxG7FA,iB;MwG6FA,4B;QAMqD,OxG7FM,MAAO,OwG6FZ,YAA,Y,GxG7FA,CwG6Fb,GAA6C,EA7C,I; O;KANrD,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAmB,sBAAIB,YAAW,GAAO,C;O;KANzE,C;8FAQ A,yB;MAAA,0D;MAAA,0B;MAAA,4B;QAOMD,OAAuC,OAApB,kBAAIB,YAA,Y,GAAM,CAAoB,C;O;KAP1F ,C;4FASA,yB;MAAA,wD;MAAA,0B;MAAA,4B;QAOKD,OAA2B,OAAAnB,iBAAR,SAAQ,CAAmB,C;O;KAP7E, C;IAUA,2C;MAaI,OAA+E,OAA9E,SAAQ,KAAI,WAAa,CAAjB,CAAR,GAakD,CAAIB,YAA,Y,GAAM,MAAK, CAAL,IAAU,WAAa,CAAvB,CAA4B,C;K;IAEnF,4C;MAaI,OAA+E,OAA9E,SAAQ,IAAI,CAAJ,IAAS,WAAa,C AAtB,CAAR,GAAwD,CAAIB,YAA,Y,GAAM,OAAK,WAAa,CAAIB,CAAsB,C;K;oFAEnF,yB;MAAA,gD;MAA A,4B;QAM8C,OAAqB,aAApB,YAA,Y,KAAQ,C;O;KANnE,C;oGAQA,yB;MxGtKA,iB;MwGsKA,4B;QAOI,OxG vKuD,MAAO,OwGuK7D,YAA,Y,KxGvKiD,CwGuK9D,GAA+C,EAA/C,I;O;KAPJ,C;sGASA,yB;MAAA,kE;MA AA,4B;QAMuD,OAAqB,sBAApB,YAAW,KAAAS,C;O;KAN5E,C;8FAQA,yB;MAAA,0D;MAAA,4B;MAAA,4B; QAOqD,OAAyC,QAApB,kBAApB,YAA,Y,KAAQ,CAAoB,C;O;KAP9F,C;4FASA,yB;MAAA,wD;MAAA,4B;M AAA,4B;QAOoD,OAA2B,QAAAnB,iBAAR,SAAQ,CAAmB,C;O;KAP/E,C;IAUA,2C;MAaI,OAAoF,QAAAnF,SAA Q,KAAI,WAAa,EAajB,CAAR,GAAqD,CAApB,YAA,Y,KAAQ,MAAK,EAAL,IAAW,WAAa,EAAXb,CAA8B,C; K;IAExF,4C;MAaI,OAAoF,QAAAnF,SAAQ,IAAI,EAaj,IAAU,WAAa,EAavB,CAAR,GAA4D,CAApB,YAA,Y,K AAQ,OAAK,WAAa,EAaIB,CAAuB,C;K;0E9MIRxF,yB;MAaA,kF;MAbA,wB;QAUbI,IAAI,CAbI,KAaR,C;UAC I,cAda,qB;UAeb,MAAM,8BAAyB,OAAQ,WAAjC,C;U;KAZbD,C;0EAaA,yB;MAAA,kF;MAAA,qC;QAUl,IAAI, CAAC,KAAL,C;UACI,cAAc,a;UACd,MAAM,8BAAyB,OAAQ,WAAjC,C;U;KAZd,C;sFAGbA,yB;MAWA,kF;M AXA,wB;QAQW,yB;QAEp,IAfsB,KAelB,QAAJ,C;UACI,cAhB2B,0B;UAIb3B,MAAM,8BAAyB,OAAQ,WAAjC ,C;;UAEN,wBAnBkB,K;;QAAtB,4B;O;KARJ,C;wFAWA,yB;MAAA,kF;MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,c AAa,c;UACd,MAAM,8BAAyB,OAAQ,WAAjC,C;;UAEN,OAAO,K;;O;KAhBf,C;oEAoBA,yB;MAaA,4E;MAbA, wB;QAUbI,IAAI,CAbE,KAaN,C;UACI,cAdW,e;UAeX,MAAM,2BAAsB,OAAQ,WAA9B,C;U;KAZbD,C;sEAaA, yB;MAAA,4E;MAAA,qC;QAUl,IAAI,CAAC,KAAL,C;UACI,cAAc,a;UACd,MAAM,2BAAsB,OAAQ,WAA9B, C;U;KAZd,C;kFAGbA,yB;MAcA,4E;MAAd,wB;QAWW,uB;QAEp,IAfoB,KAehB,QAAJ,C;UACI,cAhByB,0B;U AiBzB,MAAM,2BAAsB,OAAQ,WAA9B,C;;UAEN,sBAnBgB,K;;QAApB,0B;O;KAXJ,C;oFAcA,yB;MAAA,4E; MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,cAAc,a;UACd,MAAM,2BAAsB,OAAQ,WAA9B,C;;UAEN,OAAO,K;;O; KAhBf,C;oEAqBA,yB;MAAA,4E;MAAA,0B;QAMiD,MAAM,2BAAsB,OAAQ,WAA9B,C;O;KANvD,C;I8CnHi C,uB;MA2D7B,8B;MA1DA,kB;K;mFAS8B,Y;MAAQ,iD;K;mFAMR,Y;MAAQ,gD;K;wFAItC,yB;MAAA,gB;M AAA,8B;MAAA,mB;QAWgB,Q;QADR,mB;UADJ,OACiB,I;;UADjB,OAeY,2E;O;KAXhB,C;uCacA,Y;MAQQ, kBADE,UACf,kB;QADJ,OACkB,UAAM,U;;QADxB,OAeY,I;K;gCAGhB,Y;MAOQ,kBADE,UACf,kB;QADJ,O ACKB,UAAM,W;;QADxB,OAeY,sBAAU,UAAV,O;K;IAKhB,4B;MAAA,gC;K;wHAKI,yB;MAAA,iC;MAAA,w B;QAOI,uBAAO,KAAP,C;O;KAPJ,C;wHASA,yB;MAAA,kD;MAAA,iC;MAAA,4B;QAOI,uBAAO,cAAc,SAAd, CAAP,C;O;KAPJ,C;;IADJ,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;IAwBsB,mC;MACIB,0B;K;sCAGA,iB;MAA4 C,+CAAoB,uBAAa,KAAM,UAAnB,C;K;wCACHe,Y;MAA+B,OAAU,SAAV,cAAU,C;K;wCACzC,Y;MAAkC,o BAAU,cAAV,M;K;;;;gCAF1C,Y;MAAA,c;MAOI,sD;MAPJ,a;K;8BAAA,iB;MAAA,2IAOI,sCAPJ,G;K;IAmGA

,kC;MAOI,OAAO,mBAAQ,SAAR,C;K;IAEX,mC;MAQI,IAAI,8CAAJ,C;QAA6B,MAAM,eAAM,U;K;gFAG7C,  
yB;MAAA,4B;MAAA,qB;MAxCO,kD;MAwCR,wB;QAOW,Q;;UACI,OAIHD,WAKDW,OAI DX,C;;UAmDN,gC;  
YACS,OA3CH,WAAO,cA2CI,CA3CJ,CAAP,C;;YA wCD,O;;QAAP,W;O;KAPJ,C;kFAcA,yB;MAAA,4B;MAAA,  
qB;MAtdQ,kD;MASDR,mC;QAOW,Q;;UACI,OAhEH,WAgEW,gBAhEX,C;;UAIEN,gC;YACS,OAZDH,WAAO,  
cAyDI,CAzDJ,CAAP,C;;YAsDD,O;;QAAP,W;O;KAPJ,C;8EAgBA,yB;MAAA,oD;MAAA,gB;MAAA,8B;MAAA  
,4B;QAUW,Q;QADP,yB;QACA,OAAO,gF;O;KAVX,C;+EAaA,yB;MAAA,gB;MAAA,8B;MAAA,uC;QAegB,U  
ADL,M;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,yF;;UACA,mBAAU,SAAV,C;QAFZ,a;O;KAdJ,C;kFAoBA,yB;  
MAAA,gB;MAAA,8B;MAAA,0C;QAUW,Q;QADP,IAAI,mBAAJ,C;UAAe,OAAO,Y;QACTB,OAAO,gF;O;KAV  
X,C;qEAaA,yB;MAAA,gB;MAAA,8B;MAAA,kD;QAIb0B,UADf,M;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,m  
BAAU,gFAAV,C;;UACA,mBAAU,SAAV,C;QAFZ,a;O;KAhBJ,C;mEAwBA,yB;MAAA,4B;MAAA,gB;MAAA,8  
B;MAAA,uC;YAE8C,I;YADnC,M;QACH,wB;UAAa,gB;UAAO,SA7JhB,WA6JwB,UAAU,gFAAV,CA7JxB,C;;U  
A8JI,oBAAO,eAAP,C;QAFZ,a;O;KAdJ,C;gFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,iC;MA1GA,qB;MAtdQ,k  
D;MAGKR,uC;QAWW,Q;QACH,wB;UA/GG,U;;YA+GkC,U;YA9G9B,SAhEH,gBA8KuB,UAAU,sFAAV,CA9K  
vB,C;;YAIEN,gC;cACS,SAzDH,gBAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UA+GU,a;;UACL,uBAAO,eAAP,C;  
QAFZ,W;O;KAXJ,C;wEAIbA,yB;MAAA,4B;MAAA,uC;QAcW,Q;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,gB;;  
UACO,OAnMX,WAmMmB,UAAU,SAAV,CAnMnB,C;;QAI MR,W;O;KAdJ,C;wFAoBA,yB;MA/IA,4B;MAAA,q  
B;MAtdQ,kD;MAqMR,uC;QAWW,Q;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,gB;;UApJL,U;;YACI,SAhEH,WA  
oNkB,oBApNIB,C;;YAIEN,gC;cACS,SAzDH,WAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UAqJK,a;;QAFZ,W;O;  
KAXJ,C;4EAmBA,6B;MAUI,Q;MAAA,iD;QAAyB,Y;OACzB,OAAO,S;K;4EAGX,yB;MAAA,gB;MAAA,8B;M  
AAA,oC;QAU0B,Q;QAAtB,IAAI,mBAAJ,C;UAAe,OAAO,gFAAP,C;SACf,OAAO,S;O;KAXX,C;I3CtGc,sC;M  
AAC,uB;QAAA,UAAkB,kC;mBAA4C,O;;K;;0DAE/F,yB;MAAA,2D;MAAA,mB;QAKoC,MAAM,8B;O;KAL1C,  
C;oEAOA,yB;MAAA,2D;MAAA,yB;QAMkD,MAAM,6BAAoB,sCAAmC,MAAvD,C;O;KANxD,C;gEAUA,iB;  
MAUI,OAAO,O;K;kEAGX,4B;MAUI,OAAO,gB;K;oEAGX,2B;MAUI,OAAgB,MAAT,QAAS,C;K;oEAGpB,4B;  
MAUI,gB;MACA,OAAO,S;K;kEAGX,4B;MAWI,MAAM,SAAN,C;MACA,OAAO,S;K;kEAGX,4B;MAUI,OAA  
O,MAAM,SAAN,C;K;sEAGX,gC;MAWI,OAAW,UAAU,SAAV,CAAJ,GAAqB,SAArB,GAA+B,I;K;8EAG1C,g  
C;MAWI,OAAW,CAAC,UAAU,SAAV,CAAL,GAAsB,SAAtB,GAAgC,I;K;wEAG3C,yB;MAWI,iBAAc,CAAd,  
UAAsB,KAAtB,U;QACI,OAAO,KAAP,C;;K;wE4MjJR,iB;MAIkF,Y;K;ICY9C,6B;MACHc,kB;MACA,oB;K;8B  
AGA,Y;MAGyC,aAAG,UAAH,UAAW,WAAX,M;K;;gCAvB7C,Y;MAGBI,iB;K;gCAhBJ,Y;MAiBI,kB;K;kCAjB  
J,yB;MAAA,gBAgBI,qCAhBJ,EAIbI,wCAjBJ,C;K;8BAAA,Y;MAAA,c;MAGBI,sD;MACA,uD;MAjBJ,a;K;4BA  
AA,iB;MAAA,4IAGBI,sCAhBJ,IAiBI,wCAjBJ,I;K;IA0BA,6B;MAMoD,gBAAK,SAAL,EAAW,IAAX,C;K;IAEp  
D,8B;MAI8C,iBAAO,eAAP,EAAC,gBAAd,E;K;IAiBD,sC;MACzC,kB;MACA,oB;MACA,kB;K;gCAGA,Y;MAG  
yC,aAAG,UAAH,UAAW,WAAX,UAAoB,UAApB,M;K;;kCAx7C,Y;MAGBI,iB;K;kCAhBJ,Y;MAiBI,kB;K;kC  
AjBJ,Y;MAkBI,iB;K;oCAIBJ,gC;MAAA,kBAgBI,qCAhBJ,EAIbI,wCAjBJ,EAKBI,qCAIBJ,C;K;gCAAA,Y;MAA  
A,c;MAGBI,sD;MACA,uD;MACA,sD;MAIBJ,a;K;8BAAA,iB;MAAA,4IAGBI,sCAhBJ,IAiBI,wCAjBJ,IAKBI,sCA  
IBJ,I;K;IA2BA,8B;MAImD,iBAAO,eAAP,EAAC,gBAAd,EAAsB,eAAtB,E;K;I5NIE1B,qB;MAErB,6B;MAFwD,g  
B;K;IAExD,2B;MAAA,+B;MAcI,iBAGoC,UAAM,CAAN,C;MAEpC,iBAGoC,UAAM,MAAN,C;MAEpC,kBAG  
mC,C;MAEnC,iBAGkC,C;K;;;IANbtC,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;kGAsBA,iB;MAOmE,OAAa,0BA2  
O1C,SAAL,GAAiB,GA3O8B,EAAU,KA2OpD,KAAL,GAAiB,GA3O8B,C;K;sGAehF,iB;MAM2D,OAAa,0BA  
AmO1C,SAAL,GAAiB,GAnOsB,EAAU,KEoO5C,KAAL,GAAiB,KFpOsB,C;K;sGAExE,yB;MA0PA,6B;MC3PA,8C;  
MDCA,wB;QAMyD,OCAS,YAAiB,CD6PhD,cAAU,SAAL,GAAiB,GAAtB,CC7PgD,MAAJB,EDAe,KCAc,KAA  
7B,C;O;KDNIE,C;sGAQA,yB;MA4PA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MjBCA,wB;QAM0D,OiBAS,aAAk  
B,CjB+PhD,eAAW,oBAAL,SAAK,CAAL,UAAAN,CiB/PgD,MAAIB,EjBAGB,KiBac,KAA9B,C;O;KjBNnE,C;4F  
AQA,yB;MA0OA,6B;MA1OA,wB;QAEsD,OCMD,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,MA  
AK,GAAW,CD2O5C,cAjPsC,KAIp5B,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;O;KDRrD,C;4FAGA,yB;  
MAuOA,6B;MAvOA,wB;QAEuD,OCGF,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,MAAK,GAA  
W,CC4O5C,cF/OuC,KE+O7B,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;O;KDLrD,C;4FAGA,yB;MAoOA  
,6B;MApOA,wB;QAEqD,OCAA,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,MAAK,GDAI,KCAO,  
KAAX,IAAf,C;O;KDFrD,C;4FAGA,yB;MA2OA,WAS6D,wB;MAT7D,+B;MA3OA,wB;QAEuD,OiBAA,eAAW,

CjBkP7B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBIP6B,MAAK,KjBAI,KiBAO,KAAX,CAAhB,C;O;KjBFvD,C;8FAIA,yB;MA6NA,6B;MA7NA,wB;QAEuD,OCMD,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,MAAK,GAAY,CD8N9C,cApOwC,KAoO9B,KAAL,GAAiB,GAAtB,CC9N8C,MAAZ,IAAf,C;O;KDRtD,C;8FAGA,yB;MA0NA,6B;MA1NA,wB;QAEwD,OCGF,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,MAAK,GAAY,CC+N9C,cFIOyC,KEkO/B,KAAL,GAAiB,KAAtB,CD/N8C,MAAZ,IAAf,C;O;KDLtD,C;8FAGA,yB;MAuNA,6B;MAvNA,wB;QAEsD,OCAA,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,MAAK,GDAK,KCAO,KAAZ,IAAf,C;O;KDFtD,C;8FAGA,yB;MA8NA,WAS6D,wB;MAT7D,+B;MA9NA,wB;QAEwD,OiBAA,eAAW,CjBqO9B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBrO8B,MAAK,UjBAK,KiBAO,KAAZ,CAAhB,C;O;KjBFxD,C;8FAIA,yB;MAGNA,6B;MAhNA,wB;QAEuD,OCMD,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,CjN6B,MAAK,EAAY,CDiN9C,cAvNwC,KAuN9B,KAAL,GAAiB,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KDRtD,C;8FAGA,yB;MA6MA,6B;MA7MA,wB;QAEwD,OCGF,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,CCjN6B,MAAK,EDAK,KCAO,KAAZ,CAAf,C;O;KDFtD,C;8FAGA,yB;MAiNA,WAS6D,wB;MAT7D,+B;MAjNA,wB;QAEwD,OiBAA,eAAW,CjBwN9B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBxN8B,MAAK,UjBAK,KiBAO,KAAZ,CAAhB,C;O;KjBFxD,C;0FAIA,yB;MAmMA,6B;MC7LA,4C;MDNA,wB;QAEqD,OCMD,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDoMjB,cA1MoC,KA0M1B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDRpD,C;0FAGA,yB;MAGMA,6B;MC7LA,4C;MDHA,wB;QAEsD,OCGF,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,ECqMjB,cFxMqC,KEwM3B,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KDLpD,C;0FAGA,yB;MA6LA,6B;MC7LA,4C;MDAA,wB;QAEoD,OCAA,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDAKB,KCAIB,C;O;KDFpD,C;0FAGA,yB;MAoMA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MjBAA,wB;QAEsD,OiBAA,YjB2MjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB3MiB,EjBAmB,KiBAnB,C;O;KjBFtD,C;0FAIA,yB;MA5LA,6B;MCxKA,kD;MDdA,wB;QAMqD,OCcD,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,ED2KjB,cAzLoC,KAYL1B,KAAL,GAAiB,GAAtB,CC3KiB,C;O;KDPpD,C;0FAOA,yB;MA+KA,6B;MCxKA,kD;MDPA,wB;QAMsD,OCOF,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EC4KjB,cFnLqC,KEmL3B,KAAL,GAAiB,KAAtB,CD5KiB,C;O;KDbpD,C;0FAOA,yB;MAwKA,6B;MCxKA,kD;MDAA,wB;QAMoD,OCAA,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDAKB,KCAIB,C;O;KDNpD,C;0FAOA,yB;MA2KA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjBAA,wB;QAMsD,OiBAA,ejB8KjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB9KiB,EjBAmB,KiBAnB,C;O;KjBNtD,C;oGAQA,yB;MAyJA,6B;MC7LA,4C;MDoCA,wB;QAMiD,OCxCG,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDoMjB,cA5JqC,KA4J3B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDKcPd,C;oGAOA,yB;MAKJA,6B;MC7LA,4C;MD2CA,wB;QAMkD,OC/CE,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,ECqMjB,cFtJsC,KEsJ5B,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KDyCpD,C;oGAOA,yB;MA2IA,6B;MC7LA,4C;MDkDA,wB;QAMgD,OCtDI,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDsDmB,KCtDnB,C;O;KDgDpD,C;oGAOA,yB;MA8IA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MjBsDA,wB;QAMkD,OiB1DI,YjB2MjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB3MiB,EjB0DoB,KiB1DpB,C;O;KjBoDtD,C;0FAQA,yB;MA4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MA3LI,wB;QAQ6C,OA8LR,eAAW,OC5OI,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,ED2KjB,cA7H4B,KA6HIB,KAAL,GAAiB,GAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KAtMrC,C;0FASA,yB;MAmHA,6B;MCxKA,kD;MCwOJ,4B;MAAA,iC;MFnLI,wB;QAQ+C,OE5LR,gBAAAY,QD7OC,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EC4KjB,cFrH8B,KEqHpB,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KF9LvC,C;0FASA,yB;MA0GA,6B;MCxKA,kD;MD8DA,wB;QAQ2C,OChES,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDgES,KChET,C;O;KDwDpD,C;0FASA,yB;MA2GA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjBgEA,wB;QAQ6C,OiBIES,ejB8KjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB9KiB,EjBkEU,KiBIEV,C;O;KjB0DtD,C;0EAUA,yB;MAAA,0B;MAAA,+B;MAAA,mB;QAM0C,sBAAW,OAAL,SAAK,KAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,0B;MAAA,+B;MAAA,mB;QAM0C,sBAAW,OAAL,SAAK,KAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,8C;MAuEA,6B;MAvEA,wB;QAE8D,0BA8E3B,cAAU,SAAL,GAAiB,GAAtB,CA9E2B,EA8E3B,cA9EoD,KA8E1C,KAAL,GAAiB,GAAtB,CA9E2B,C;O;KAF9D,C;0FAIA,yB;MAAA,+B;M4LxOJ,0B;M5LwOI,wB;QAEEmD,sB4LvOgC,O5LuO1B,IAAK,K4LvOX,G5LuOoB,KAAM,K4LvOM,C5LuOhC,C;O;KAFnD,C;wFAGA,yB;MAAA,+B;M4LtOJ,0B;M5LsOI,wB;QAEkD,sB4LrO+B,O5LqOzB,IAAK,K4LrOX,G5LqOmB,KAAM,K4LrOM,C5LqO/B,C;O;KAFID,C;0FAGA,yB;

MAAA,+B;M4LpOJ,0B;M5LoOI,wB;QAEmD,sB4LnOgC,O5LmO1B,IAAK,K4LnOX,G5LmOoB,KAAM,K4LnOM,C5LmOhC,C;O;KAFnD,C;0EAGA,yB;MAAA,+B;M4LlOJ,0B;M5LkOI,mB;QAEiC,sB4LjOqB,OAAP,C5LiOR,S4LjOe,C5LiOrB,C;O;KAFjC,C;gFAIA,Y;MASmC,gB;K;kFACnC,yB;M4L1OJ,4B;M5L0OI,mB;QASqC,O4LhPiD,Q5LgP5C,S4LhPY,G5LgPE,G4LhP8B,C;O;K5LuOtF,C;8EAUA,Y;MASiC,OAAK,SAAL,GAAiB,G;K;gFACID,yB;MAAA,WASqD,wB;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,U;O;KATnC,C;kFAWA,Y;MAEqC,W;K;oFAcRc,yB;MAAA,iC;M4L5QJ,4B;M5L4QI,mB;QASuC,uB4LIR+C,Q5LkRnC,S4LIRG,G5LkRW,G4LIRqB,C5LkR/C,C;O;KATvC,C;gFAUA,yB;MAAA,6B;MAAA,mB;QASmC,qBAAU,SAAL,GAAiB,GAAiB,C;O;KATnC,C;kFAUA,yB;MAAA,WAS6D,wB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,UAN,C;O;KATrC,C;kFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,G;K;oFAqDID,Y;MAMuC,OA3DD,SAAL,GAAiB,G;K;+BA6DID,Y;MAAyC,OAAQ,CA7DX,SAAL,GAAiB,GA6DD,Y;K;+BA1UrD,Y;MAAA,c;MAG4D,qD;MAH5D,a;K;6BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;wEA8UA,yB;MAAA,+B;MAAA,4B;QAU0C,sBAAM,SAAN,C;O;KAV1C,C;0EAWA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW2C,sBAAW,OAAL,SAAK,CAAX,C;O;KAX3C,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAWyC,sBAAW,OAAL,SAAK,CAAX,C;O;KAXzC,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW0C,sBAAW,OAAL,SAAK,SAAX,C;O;KAX1C,C;Igc9WA,6B;MACqB,sB;K;uCAKjB,iB;MAM6C,OhCyUP,UgCzUO,AAAQ,KAAR,ChCyUP,C;K;uCGCvUtC,wB;MAOI,aAAQ,KAAR,IAAiB,KhCiOc,K;K;kFgC7NL,Y;MAAQ,OAAA,YAAQ,O;K;oCAE9C,Y;MAC8E,+BAAS,YAAT,C;K;IAGxD,oC;MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACvC,Y;MAAyD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAIB,C;QAAA,OhCmTO,UgCnTiB,aAAM,mBAAN,EAAM,2BAAN,OhCmTjB,C;QgCnT+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OhC2MO,KgC3MhB,C;K;+CAGnB,oB;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;Qd0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAp,e;SACrB,6B;QAAhB,OAAGB,gBAAhB,C;UAAgB,2B;Uc1nD6B,2Bd0nDR,Oc1nDQ,Q;UAAA,W;YAAuB,oBAAR,YAAQ,Ed0nD/B,OIBn7CF,KgCvMiC,C;Wd0nD9C,IAAI,OAAL,C;YAAyB,aAAO,K;YAAP,e;QAC/C,aAAO,I;Mc3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;IA/CvD,sC;MAAA,oD;MACgC,uBAAK,cAAU,IAAV,CAAL,C;MADhC,Y;K;+oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,c;MAKqB,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;gFAyDA,yB;MAAA,yC;MAWsC,yC;QAAA,wB;UAAW,OAAA,aAAK,KAAL,ChCsLV,K;S;O;MgCjMvC,6B;QAWI,OAAO,oBAAW,+BAAU,IAAV,GAAgB,uBAAhB,CAAX,C;O;KAXX,C;kFACa,oB;MAGqE,e;K;l/BtE7C,oB;MAEpB,4B;MAFuD,gB;K;IAEvD,0B;MAAA,8B;MACI,iBAGmC,SAAK,CAAL,C;MAEnC,iBAGmC,SAAK,EAAL,C;MAEnC,kBAGmC,C;MAEnC,iBAGkC,E;K;+IANBtC,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;oGAsBA,yB;MD2QA,6B;MC3PA,8C;MAhBA,wB;QAM0D,OAIbQ,YAAy,IAAK,KAAjB,EAA6B,CD6P5D,cC9QsC,KD8Q5B,KAAL,GAAiB,GAAiB,CC7P4D,MAA7B,C;O;KAvBIE,C;oGAQA,yB;MC0QA,6B;MD5PA,8C;MARA,wB;QAM2D,OASO,YAAy,IAAK,KAAjB,EAA6B,CC8P5D,cDvQuC,KCuQ7B,KAAL,GAAiB,KAAiB,CD9P4D,MAA7B,C;O;KAFIE,C;gGAQA,yB;MAAA,8C;MAAA,wB;QAOke,mBAAy,IAAK,KAAjB,EAAuB,KAAM,KAA7B,C;O;KAPIE,C;oGASA,yB;MAGRA,kBAS6D,sB;MAT7D,+B;MgBjRA,gD;MhBCA,wB;QAM0D,OgBAS,aAAkB,ChBmRhD,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBnRgD,MAAIB,EhBAGB,KgBAc,KAA9B,C;O;KhBnE,C;0FAQA,yB;MD00A,6B;MC10A,wB;QAEsD,OAMD,cAAK,IAAK,KAAK,GAAW,CD2O5C,cCjP6B,KDiPnB,KAAL,GAAiB,GAAiB,CC3O4C,MAAX,IAAf,C;O;KARrD,C;0FAGA,yB;MCwOA,6B;MDxOA,wB;QAEuD,OAGF,cAAK,IAAK,KAAK,GAAW,CC4O5C,cD/O8B,KC+OpB,KAAL,GAAiB,KAAiB,CD5O4C,MAAX,IAAf,C;O;KALrD,C;0FAGA,yB;MAAA,6B;MAAA,wB;QAEqD,qBAAK,IAAK,KAAK,GAAK,KAAM,KAAX,IAAf,C;O;KAFrD,C;0FAGA,yB;MA+PA,kBAS6D,sB;MAT7D,+B;MA/PA,wB;QAEuD,OgBAA,eAAW,ChBsQ7B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBtQ6B,MAAK,KhBAL,KgBAO,KAAX,CAAhB,C;O;KhBFvD,C;4FAIA,yB;MD6NA,6B;MC7NA,wB;QAEuD,OAMD,cAAK,IAAK,KAAK,GAAY,CD8N9C,cCpO+B,KDoOrB,KAAL,GAAiB,GAAiB,CC9N8C,MAAZ,IAAf,C;O;KARtD,C;4FAGA,yB;MC2NA,6B;MD3NA,wB;QAEwD,OAGF,cAAK,IAAK,KAAK,GAAY,CC+N9C,cDIOgC,KCKOtB,KAAAL,GAAiB,KAAiB,CD/N8C,MAAZ,IAAf,C;O;KALiD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAEsD,qBAAK,IAAK,KAAK,GAAM,KAAM,KAAX,IAAf,C;O;KAFtD,C;4FAGA,yB;MAkPA,kBAS6D,sB;MAT7D,+B;MAIPA,wB;QAEwD,OgBAA,eAAW,ChByP9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBzP8B,MAAK,UhBAK,KgBAO,KAAZ,CAAhB,C;O;KhBFxD,C;4FAIA,yB;MDgNA,6B;MChNA,wB;QAEuD,OAMD,cAAe,YAAV,IAAK,KAA

K,EAAY,CDiN9C,cCvN+B,KDuNrB,KAAL,GAAiB,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KARtD,C;4FAGA,yB; MC8MA,6B;MD9MA,wB;QAEwD,OAGF,cAAe,YAAV,IAAK,KAAK,EAAY,CCKn9C,cDrNgC,KCqNtB,KAAL ,GAAiB,KAAtB,CDiN8C,MAAZ,CAAf,C;O;KALtD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAEsD,qBA Ae,YAA V,IAAK,KAAK,EAAM,KAAM,KAAZ,CAAf,C;O;KAFtD,C;4FAGA,yB;MAqOA,kBAS6D,sB;MAT7D,+B;MAr OA,wB;QAEwD,OgBAA,eAAW,ChB4O9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB5O8B,MAAK,UhBAK,Kg BAO,KAAZ,CAAhB,C;O;KhBFxD,C;wFAIA,yB;MDmMA,6B;MC7LA,4C;MANA,wB;QAEqD,OAMD,WAAW, IAAX,EDoMjB,cC1M2B,KD0MjB,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KARpD,C;wFAGA,yB;MCiMA,6B;MD 9LA,4C;MAHA,wB;QAEsD,OAGF,WAAW,IAAX,ECqMjB,cDxM4B,KCwMIB,KAAL,GAAiB,KAAtB,CDrMiB ,C;O;KALpD,C;wFAGA,yB;MAAA,4C;MAAA,wB;QAEoD,kBAAW,IAAX,EAAiB,KAAjB,C;O;KAFpD,C;wFA GA,yB;MAwNA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MhBAA,wB;QAEsD,OgBAA,YhB+NjB,eAAW,oBAAL, SAAK,CAAL,iBAAN,CgB/NiB,EhBAmb,KgBANB,C;O;KhBFtD,C;wFAIA,yB;MDsLA,6B;MCxKA,kD;MAdA, wB;QAMqD,OAcD,cAAc,IAAd,ED2KjB,cCzL2B,KDyLjB,KAAL,GAAiB,GAAtB,CC3KiB,C;O;KApBpD,C;wF AOA,yB;MCgLA,6B;MDzKA,kD;MAPA,wB;QAMsD,OAO,cAAc,IAAd,EC4KjB,cDnL4B,KCmLiB,KAAL,GA AiB,KAAtB,CD5KiB,C;O;KAbpD,C;wFAOA,yB;MAAA,kD;MAAA,wB;QAMoD,qBAAc,IAAd,EAAoB,KAApB ,C;O;KANpD,C;wFAOA,yB;MA+LA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBAA,wB;QAMsD,OgBAA,ehBk MjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBIMiB,EhBAmb,KgBANB,C;O;KhBNtD,C;kGAQA,yB;MDyJA,6 B;MC7LA,4C;MAoCA,wB;QAMiD,OAxCG,WAAW,IAAX,EDoMjB,cC5J4B,KD4JIB,KAAL,GAAiB,GAAtB,C CpMiB,C;O;KAKcP,D,C;kGAOA,yB;MCmJA,6B;MD9LA,4C;MA2CA,wB;QAMkD,OA/CE,WAAW,IAAX,ECq MjB,cDtJ6B,KCsJnB,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KAYcP,D,C;kGAOA,yB;MAIDA,4C;MAkDA,wB;QA MgD,OAtDI,WAAW,IAAX,EAsDA,KAtDA,C;O;KAGpD,C;kGAOA,yB;MAkKA,kBAS6D,sB;MAT7D,+B;Mg BxNA,8C;MhBsDA,wB;QAMkD,OgB1DI,YhB+NjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB/NiB,EhB0DoB, KgB1DpB,C;O;KhBoDtD,C;wFAQA,yB;MD4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MC3LI,wB;QAQ6C,O D8LR,eAAW,OC5OI,cAAc,IAAd,ED2KjB,cC7HmB,KD6HT,KAAL,GAAiB,GAAtB,CC3KiB,CAkLf,KD0DW,C AAX,C;O;KCtMrC,C;wFASA,yB;MCoHA,6B;MDzKA,kD;MCwOJ,4B;MAAA,iC;MDnLI,wB;QAQ+C,OCsLR,g BAAY,QD7OC,cAAc,IAAd,EC4KjB,cDrHqB,KCqHX,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C; O;KD9LvC,C;wFASA,yB;MA9DA,kD;MA8DA,wB;QAQ2C,OAhES,cAAc,IAAd,EAGEL,KAHEK,C;O;KAwDpD ,C;wFASA,yB;MA+HA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBgEA,wB;QAQ6C,OgBIES,ehBkMjB,eAAW,o BAAL,SAAK,CAAL,iBAAN,CgBIMiB,EhBkEU,KgBIEV,C;O;KhB0DtD,C;wEAUA,yB;MAAA,6B;MAAA,mB; QAMyC,qBAAK,SAAK,QAAY,C;O;KANzC,C;wEAQA,yB;MAAA,6B;MAAA,mB;QAMyC,qBAAK,SAAK,QA AV,C;O;KANzC,C;gGAQA,yB;MAAA,8C;MAAA,wB;QAE6D,0BAAU,IAAV,EAAGB,CAAhB,C;O;KAF7D,C; wFAIA,yB;MAAA,6B;MAAA,2B;QAOmD,qBAAK,aAAS,QAAd,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA, 2B;QAOmD,qBAAK,cAAU,QAaf,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KA AL,GAAc,KAAM,KAAzB,C;O;KAFjD,C;SFAGA,yB;MAAA,6B;MAAA,wB;QAEgD,qBAAK,IAAK,KAAL,GA Aa,KAAM,KAAxB,C;O;KAFhD,C;wFAGA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KA AM,KAAzB,C;O;KAFjD,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEgC,qBAAU,CAAL,SAAL,C;O;KAFhC,C;8 EAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAAL,SAAK,C;O;KAVxC,C;gFAWA,yB;MAAA,4B;MAAA, mB;QAUqC,OAAK,QAAL,SAAK,C;O;KAVIC,C;4EAWA,Y;MASiC,gB;K;8EACjC,yB;MAAA,kBASqD,sB;MA TrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,iB;O;KATnC,C;gFAWA,yB;MDwDJ,0B;MAAA,+B;MCxDI,mB; QASqC,OD0DA,eAAW,OC1DX,SD0DW,CAAX,C;O;KCnErC,C;kFAUA,yB;MC+CJ,4B;MAAA,iC;MD/CI,mB; QASuC,OCiDA,gBAAY,QDjDZ,SCiDY,CAAZ,C;O;KD1DvC,C;8EAUA,Y;MAEmC,W;K;gFACnC,yB;MAAA,k BAS6D,sB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;O;KATrC,C;gFAWA,yB; MASA,gD;MATA,mB;QAQqC,OAOE,aAAa,SAAb,C;O;KAFvC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMuC,o BAAa,SAAb,C;O;KANvC,C;8BAQA,Y;MAAyC,OArDD,oBAAL,SAAK,CAAL,iBAQDe,W;K;,,,;8BAhWtD,Y;M AAA,c;MAG2D,qD;MAH3D,a;K;4BAAA,iB;MAAA,2IAG2D,oCAH3D,G;K;sEAoWA,yB;MAAA,6B;MAAA,4B ;QAWwC,qBAAU,SAAV,C;O;KAXxC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAWyC,qBAAU,SAAV,C;O;KAX zC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;O;KAVvC,C;wEAWA,yB;MAAA,6B;MAAA ,4B;QAWwC,qBAAK,SAAK,QAAY,C;O;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,4B;QASyC,oBAAKB,SAIIB, C;O;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C;O;KAT1C,C;IgC3ZA,4B;MACqB,sB



;K;sCAKjB,iB;MAM4C,OhCuXT,SgCvXS,aAAQ,KAAR,ChCuXT,C;K;sCgCrXnC,wB;MAOI,aAAQ,KAAR,IAA  
iB,KhCyQY,K;K;iFgCrQH,Y;MAAQ,OAAA,YAAQ,O;K;mCAE9C,Y;MAC6E,8BAAS,YAAT,C;K;IAGvD,mC;  
MAAgC,uB;MAA/B,oB;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q;  
MAA9B,IAAI,eAAQ,YAAM,OAAIB,C;QAAA,OhCiWK,SgCjWmB,aAAM,mBAAN,EAAM,2BAAN,OhCiWnB,  
C;;QgCjWgD,MAAM,2BAAuB,YAAM,WAA7B,C;K;;yCAGzF,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,  
C;QAAgC,OAAO,K;MAEvC,OAAe,WAAR,YAAQ,EAAS,OhCmPK,KgCnPd,C;K;8CAGnB,oB;MACY,Q;MAA  
2B,gBAA3B,gE;MAA2B,c;;Qf0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,6  
B;QAAhB,OAAgB,gBAhB,C;UAAgB,2B;Ue1nD6B,2Bf0nDR,Oe1nDQ,O;UAAA,W;YAAsB,oBAAR,YAAQ,E  
f0nD9B,OjB34CJ,KgC/OkC,C;Wf0nD7C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;Me3nDH,i  
B;K;kCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,qC;MAAA,mD;MACgC,sBAAK,eAA  
S,IAAT,CAAL,C;MADhC,Y;K;;;mCAPJ,Y;MAAA,OAKqB,oDALrB,M;K;mCAAA,Y;MAAA,c;MAKqB,wD;M  
ALrB,a;K;iCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;8EAyDA,yB;MAAA,uC;MAWoC,wC;QAAA,wB;UAAW,O  
AAA,aAAK,KAAL,ChC8NV,K;S;O;MgCzOrC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV,  
C;O;KAXX,C;gFACa,oB;MAGkE,e;K;I4LnE5C,wC;MAsBlB,iC;MATsD,2BAAgB,KAAhB,EAAuB,YAAvB,EA  
AqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,W5NwCoB,Y4NxCPB,  
U5NwCqC,KAAjB,E4NxCX,K5NwCwC,KAA7B,C4NxCPB,K;MAAA,S;QAAkB,O5NwCE,Y4NxCF,K5NwCmB  
,KAAjB,E4NxCO,S5NwCsB,KAA7B,C4NxCF,K;OAAIB,W;K;kCAE9C,Y;MAKkC,O5NiCgC,Y4NjChC,U5NiCi  
D,KAAjB,E4NjCxB,S5NiCqD,KAA7B,C4NjChC,I;K;iCAEIC,iB;MAEY,UAAwB,M;MADhC,2CAAuB,kBAAa,  
KAAM,UAAAnB,KACf,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADe,CAAvB,C;K;mCA  
GJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U5NyQA,K4NzQL,QAAqB,S5NyQhB,K4NzQL,I;K;mC  
AE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EAA0  
B,4BAAK,UAA/B,C;K;;IAFIC,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;;IAYJ,oD;MA4CI,uC;MATCI,IAAI,SAA  
Q,CAAZ,C;QAAuB,MAAA,gCAAYB,wBAAzB,C;MACpC,IAAI,SAAQ,WAAZ,C;QAA2B,MAAA,gCAAYB,wEA  
AzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YAGu  
B,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEhD,Y;MAMqC,OAAI,  
YAAO,CAAX,G5NvB6B,Y4NuBf,U5NvBgC,KAAjB,E4NuBP,S5NvBoC,KAA7B,C4NuBf,IAAd,G5NvB6B,Y4N  
uBG,U5NvBc,KAAjB,E4NuBW,S5NvBkB,KAA7B,C4NuBG,I;K;uCAErE,iB;MAEY,UAAwB,M;MADhC,iDAA  
6B,kBAAa,KAAM,UAAAnB,KACrB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,KAA8C,cA  
AQ,KAAM,KADvC,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,U5NiNN,  
K4NjNC,QAAqB,S5NiNtB,K4NjNC,IAAN,SAAGD,SAAhD,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAA  
gB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;K;I  
AEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAA5C,IAAT,C;K;;IAT/F,iD;M  
AAA,gD;QAAA,+B;OAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1  
C,G5NxDe,Y4NwDrB,K5NxDsC,KAAjB,E4NwDZ,I5NxDyC,KAA7B,C4NwDrB,KAA7C,G5NxDe,Y4NwDF,  
K5NxDmB,KAAjB,E4NwDO,I5NxDsB,KAA7B,C4NwDF,K;MACHe,c5N2RmC,S4N3RhB,I5N2RgB,C;M4N1Rn  
C,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAE3C,Y;MAAkC,qB;K;iDAEIC,Y;MACI,YAAY,W;MACZ,IA  
AI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAA,6B;QAC3B,iBAAU,K;;QAEV,c5NID6C,  
S4NkD7C,W5NIDuD,KAAK,G4NkDpD,W5NID+D,KAAX,IAAf,C;;M4NoDjD,OAAO,K;K;;IC3Hf,yB;K;mCAII,  
Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;m  
CAII,Y;MAA4B,uB;K;;I7M5BP,qB;MAErB,6B;MAFwD,gB;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,a;MAEpC,  
iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;IANtC,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;sGAsBA  
,yB;MjBqRA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MAxBa,wB;QAM0D,OAYBS,aAAa,IAAK,KAAIB,EAA8B,  
CjB+P5D,eAAW,oBiBxRyB,KjBwR9B,KAAK,CAAL,UAAN,CiB/P4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;Mf8  
QA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MAhBA,wB;QAM2D,OaiBQ,aAAa,IAAK,KAAIB,EAA8B,CfgQ5D,eAA  
W,oBejR0B,KfiR/B,KAAK,CAAL,YAAN,CehQ4D,MAA9B,C;O;KAvBnE,C;sGAQA,yB;MhByRA,kBAS6D,sB;  
MAT7D,+B;MgBjRA,gD;MARA,wB;QAMyD,OASU,aAAa,IAAK,KAAIB,EAA8B,ChBmR5D,eAAW,oBgB5Rw  
B,KhB4R7B,KAAK,CAAL,iBAAN,CgBnR4D,MAA9B,C;O;KafnE,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAO  
mE,oBAAa,IAAK,KAAIB,EAAwB,KAAM,KAA9B,C;O;KAPnE,C;4FASA,yB;MjBoPA,WAS6D,wB;MAT7D,+B

;MiBpPA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAW,CjBkP7C,eAAW,oBiB3PiB,KjB2PtB,KAAK,CAAL,UAAN,CiBIP6C,MAAX,CAAhB,C;O;KAXvD,C;4FAGA,yB;MfkPA,aAS6D,0B;MAT7D,+B;MelPA,wB;QAEwD,OAMD,eAAM,IAAK,KAAK,KAAW,CfmP7C,eAAW,oBezPkB,KfyPvB,KAAK,CAAL,YAAN,CenP6C,MAAX,CAAhB,C;O;KARvD,C;4FAGA,yB;MhBkQA,kBAS6D,sB;MAT7D,+B;MgBlQA,wB;QAEsD,OAGC,eAAM,IAAK,KAAK,KAAW,ChBsQ7C,eAAW,oBgBzQgB,KhByQrB,KAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C;O;KALvD,C;4FAGA,yB;MAAA,+B;MAAA,wB;QAEuD,sBAAM,IAAK,KAAK,KAAK,KAAW,KAAX,CAAhB,C;O;KAFvD,C;8FAIA,yB;MjBuOA,WAS6D,wB;MAT7D,+B;MiBvOA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAAY,CjBqO/C,eAAW,oBiB9OmB,KjB8OxB,KAAK,CAAL,UAAN,CiBrO+C,MAAZ,CAAhB,C;O;KAXxD,C;8FAGA,yB;MfqOA,aAS6D,0B;MAT7D,+B;MerOA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAAY,CfsO/C,eAAW,oBe5OoB,Kf4OzB,KAAK,CAAL,YAAN,CetO+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBqPA,kBAS6D,sB;MAT7D,+B;MgBrPA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAAY,ChByP/C,eAAW,oBgB5PkB,KhB4PvB,KAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAAM,KAAZ,CAAhB,C;O;KAFxD,C;8FAIA,yB;MjB0NA,WAS6D,wB;MAT7D,+B;MiB1NA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAAY,CjBwN/C,eAAW,oBiBjOmB,KjBiOxB,KAAK,CAAL,UAAN,CiBxN+C,MAAZ,CAAhB,C;O;KAXxD,C;8FAGA,yB;MfwNA,aAS6D,0B;MAT7D,+B;MexNA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAAY,CfyN/C,eAAW,oBe/NoB,Kf+NzB,KAAK,CAAL,YAAN,CezN+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBwOA,kBAS6D,sB;MAT7D,+B;MgBxOA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAAY,ChB4O/C,eAAW,oBgB/OkB,KhB+OvB,KAAK,CAAL,iBAAN,CgB5O+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAAM,KAAZ,CAAhB,C;O;KAFxD,C;0FAIA,yB;MjB6MA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MATA,wB;QAEsD,OASA,YAAAY,IAAZ,EjB2MjB,eAAW,oBiBpNe,KjBoNpB,KAAK,CAAL,UAAN,CiB3MiB,C;O;KAXtD,C;0FAGA,yB;Mf2MA,aAS6D,0B;MAT7D,+B;MerMA,8C;MANA,wB;QAEuD,OAMD,YAAAY,IAAZ,Ef4MjB,eAAW,oBelNgB,KfkNrB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KARtD,C;0FAGA,yB;MhB2NA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MAHA,wB;QAEqD,OAGC,YAAAY,IAAZ,EhB+NjB,eAAW,oBgBlOc,KhBkOnB,KAAK,CAAL,iBAAN,CgB/NiB,C;O;KALtD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAIB,C;O;KAFtD,C;0FAIA,yB;MjBgmA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MarBA,wB;QAMsD,OAqBA,eAAe,IAAf,EjB8KjB,eAAW,oBiBnMe,KjBmMpB,KAAK,CAAL,UAAN,CiB9KiB,C;O;KA3BtD,C;0FAOA,yB;Mf0LA,aAS6D,0B;MAT7D,+B;Me5KA,oD;MAdA,wB;QAMuD,OAcd,eAAe,IAAf,Ef+KjB,eAAW,oBe7LgB,Kf6LrB,KAAK,CAAL,YAAN,Ce/KiB,C;O;KApBtD,C;0FAOA,yB;MhBsMA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MAPA,wB;QAMqD,OAOC,eAAe,IAAf,EhBkmjB,eAAW,oBgBzMc,KhByMnB,KAAK,CAAL,iBAAN,CgBIMiB,C;O;KAbtD,C;0FAOA,yB;MAAA,oD;MAAA,wB;QAMsD,sBA Ae,IAAf,EAAqB,KAArB,C;O;KANtD,C;oGAQA,yB;MjBmKA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MAiCA,wB;QAMkD,OArcI,YAAAY,IAAZ,EjB2MjB,eAAW,oBiBtKgB,KjBsKrB,KAAK,CAAL,UAAN,CiB3MiB,C;O;KA+BtD,C;oGAOA,yB;Mf6JA,aAS6D,0B;MAT7D,+B;MerMA,8C;MAwCA,wB;QAMmD,OA5CG,YAAAY,IAAZ,Ef4MjB,eAAW,oBehKiB,KfgKtB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KAsCtD,C;oGAOA,yB;MhByKA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MA+CA,wB;QAMiD,OAnDK,YAAAY,IAAZ,EhB+NjB,eAAW,oBgB5Ke,KhB4KpB,KAAK,CAAL,iBAAN,CgB/NiB,C;O;KA6CtD,C;oGAOA,yB;MatDA,8C;MAsDA,wB;QAMkD,OA1DI,YAAAY,IAAZ,EA0DA,KA1DA,C;O;KAoDtD,C;0FAQA,yB;MjBsIA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjB4OJ,0B;MAAA,+B;MiBvMI,wB;QAQ6C,OjB0MP,eAAW,OiBjPK,eAAe,IAAf,EjB8KjB,eAAW,oBiBvIM,KjBuIX,KAAK,CAAL,UAAN,CiB9KiB,CA4KjB,KjBqEY,SAAX,C;O;KiBINtC,C;0FASA,yB;Mf8HA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf6OJ,4B;MAAA,iC;Me/LI,wB;QAQ+C,OfkMP,gBAAY,QelPE,eAAe,IAAf,Ef+KjB,eAAW,oBe/HQ,Kf+Hb,KAAK,CAAL,YAAN,Ce/KiB,CAsLf,Kf4Da,SAAZ,C;O;Ke1MxC,C;0FASA,yB;MhBwIA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBkQJ,6B;MgB3MI,wB;QAQ2C,OhB8MP,cgBvQkB,eAAe,IAAf,EhBkmjB,eAAW,oBgBzII,KhByIT,KAAK,CAAL,iBAAN,CgBIMiB,CAGMnB,KhBuEW,QAAY,C;O;KgBtNpC,C;0FASA,yB;MAhEA,oD;MAGEA,wB;QAQ6C,OAIES,eAAe,IAAf,EAKEL,KAIEK,C;O;KA0DtD,C;0EAUA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAE+D,2BAAW,IAAX,EAAiB,KAAjB,C;O;KAF/D,C;0FAIA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,oBAAS,QAAT,CAAN,C;O;KAPpD,C;0FASA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,6BAAU,QAAY,CAAN,C;O;KAPpD,C;0F



yB8MnKG,E9MmKH,CAAN,CAUyB,MAApB,CAAN,CAqCIB,MAAK,Q8MINJ,Q9MkND,CARcKB,U8M7K0B,  
S9M6Kf,KAAL,KAAoB,CAVzB,U8MnKmC,S9MmK7B,yB8MnKsC,E9MmKiC,CAAN,CAUyB,MAApB,CAAN  
,CAqCIB,MAAK,Q8MINJ,IAAN,SAAqF,cAAU,6BAAU,EAAV,CAAV,CAAyB,QAA9G,I;K;0CAE5B,Y;MAAk  
C,OAAI,uBAAO,CAAX,GAAgB,UAAF,qBAAU,SAAV,cAAqB,SAArB,WAAd,GAAgD,UAAF,2BAAgB,SAAh  
B,cAA6B,SAAD,aAA5B,W;K;IAEhF,sC;MAAA,0C;K;mEACI,sC;MAQ+F,4BAAiB,UAAjB,EAA6B,QAA7B,EA  
AuC,IAAvC,C;K;;;IATnG,kD;MAAA,iD;QAAA,gC;OAAA,0C;K;;;IAoBkC,qD;MAA0C,wB;MAC5E,sBAA2B,I;  
MAC3B,iBAAmC,kBAAO,CAA1C,G9MhDmE,a8MgDtB,K9MhDwC,KAAiB,E8MgDb,I9MhD2C,KAA9B,C8M  
gDtB,KAA7C,G9MhDmE,a8MgDH,K9MhDqB,KAAiB,E8MgDM,I9MhDwB,KAA9B,C8MgDH,K;MACHe,c9M  
0SsC,U8M1SnB,I9M0SmB,C;M8MzStC,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;iDAE3C,Y;MAAkC,qB;K;m  
DAEIC,Y;MACI,YAAY,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B  
;QAC3B,iBAAU,K;;;QAEV,c9M/C+C,U8M+C/C,W9M/C0D,KAAK,K8M+CvD,W9M/CkE,KAAX,CAAhB,C;;M  
8MiDnD,OAAO,K;K;;wEC7Hf,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAP  
X,C;wEAUA,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;  
MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;MAAA,8C;MAAA  
,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;oFC7BA,yB;MAAA,gD;MAAA,4B;QAM6C,OAA  
Q,ahO+RhB,cgO/RgB,C;O;KANrD,C;oGAQA,yB;M/GwCA,iB;M+GxCA,4B;QAMqD,O/GwCM,MAAO,OjH+O  
7B,ciH/O6B,C;O;K+G9CIE,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAQ,sBhO+QzB,cgO/QyB,C;O;KA  
N9D,C;8FAQA,yB;MAAA,0D;MhOwWA,6B;MgOxWA,4B;QAOmD,OhO2WZ,cgO3WoB,kBhOsQtB,cgOtQsB,  
ChO2WpB,C;O;KgOIXvC,C;4FASA,yB;MAAA,wD;MhO+VA,6B;MgO/VA,4B;QAOkD,OhOkWX,cgOIWmB,iB  
hO6PrB,cgO7PqB,ChOkWnB,C;O;KgOzWvC,C;gFASA,yB;MAAA,4C;MhOsVA,6B;MgOtVA,sC;QAayD,OhOm  
VIB,cgOnV0B,WhO8O5B,cgO9O4B,EAAW,QAAX,ChOmV1B,C;O;KgOhWvC,C;kFAGBA,yB;MAAA,8C;MhO  
sUA,6B;MgOtUA,sC;QAa0D,OhOmUnB,cgOnU2B,YhO8N7B,cgO9N6B,EAAZ,QAAX,ChOmU3B,C;O;KgOhV  
vC,C;oFAGBA,yB;MAAA,gD;MAAA,4B;QAM8C,OAAS,ahNgOhB,cgNhOgB,C;O;KANvD,C;oGAQA,yB;MAA  
A,gE;MAAA,4B;QAMsD,OAAS,qBhNwNxB,cgNxNwB,C;O;KAN/D,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAM  
uD,OAAS,sBhNgNzB,cgNhNyB,C;O;KANhE,C;8FAQA,yB;MAAA,0D;MhN6SA,+B;MgN7SA,4B;QAOqD,OhN  
gTX,egNhToB,kBhNuMvB,cgNvMuB,ChNgTpB,C;O;KgNvT1C,C;4FASA,yB;MAAA,wD;MhNoSA,+B;MgNpS  
A,4B;QAOoD,OhNuSV,egNvSmB,iBhN8LtB,cgN9LsB,ChNuSnB,C;O;KgN9S1C,C;+EASA,yB;MAAA,4C;MhN  
2RA,+B;MgN3RA,sC;QAa2D,OhNwRjB,egNxR0B,WhN+K7B,cgN/K6B,EAAW,QAAX,ChNwR1B,C;O;KgNrS1  
C,C;iFAeA,yB;M/GgEA,4C;MjG4MA,+B;MgN5QA,sC;QAa4D,OhNyQIB,eiGzMuB,WjGgG1B,ciGhG0B,EAAW  
,C+GhEK,Q/GgEL,IAAX,CjGyMvB,C;O;KgNtR1C,C;oFAeA,yB;MjOwJI,6B;MiO1SJ,gD;MAKJA,4B;QAM8C,O  
AIJO,ahO+RhB,CDcE,cAAU,cAAL,GAAiB,GAAtB,CCdF,MgO/RgB,C;O;KA4IrD,C;oGAQA,yB;M/G1GA,iB;M  
+G0GA,4B;QAMsD,O/G1GK,MAAO,OlHuM3B,c0N1Ge,GAAZ,GxG7FA,CwG6Fb,GAA6C,EAA7C,I;O;KOO  
rD,C;sGAQA,yB;MPbA,kE;MOaA,4B;QAMuD,OPbkB,sB1NkGIC,c0NIGgB,GAAW,GAAO,C;O;KOOzE,C;8FA  
QA,yB;MAAA,0D;MjO+LA,0B;MAAA,+B;MiO/LA,4B;QAOqD,OjOmMZ,eAAW,OiOnMS,kBjOgGnB,cAAL,G  
AAiB,GiOhGO,CjOmMT,CAAX,C;O;KiO1MzC,C;4FASA,yB;MAAA,wD;MjOsLA,0B;MAAA,+B;MiOtLA,4B;  
QAOoD,OjO0LX,eAAW,OiO1LQ,iBjOuFIB,cAAL,GAAiB,GiOvFM,CjO0LR,CAAX,C;O;KiOjMzC,C;gFAUA,y  
B;MAAA,4C;MjOqJA,+B;MiOrJA,sC;QAa2D,OjOkJjB,eiOlJ0B,WjOmD7B,ciOnD6B,EAAW,QAAX,CjOkJ1B,C  
;O;KiO/J1C,C;kFAeA,yB;MAAA,8C;MjOsIA,+B;MiOtIA,sC;QAa4D,OjOmIIB,eiOnI2B,YjOoC9B,ciOpC8B,EAA  
Y,QAAX,CjOmI3B,C;O;KiOhJ1C,C;oFAeA,yB;M/NgFI,6B;M+N3SJ,gD;MA2NA,4B;QAM+C,OA3NM,ahO+Rh  
B,CCeE,cAAU,cAAL,GAAiB,KAAtB,CDfF,MgO/RgB,C;O;KAqNrD,C;oGAQA,yB;M/GnLA,iB;M+GmLA,4B;Q  
AMuD,O/GnLI,MAAO,OhHkNzB,cwN3CpC,GAAZ,KxGvKiD,CwGuK9D,GAA+C,EAA/C,I;O;KOMJ,C;sGAQ  
A,yB;MPZA,kE;MOYA,4B;QAMwD,OPZoB,sBxNmCnC,cwNnCe,GAAW,KAAS,C;O;KOM5E,C;8FAQA,yB;M  
AAA,0D;M/NuHA,4B;MAAA,iC;M+NvHA,4B;QAOuD,O/N2HZ,gBAAY,Q+N3HQ,kB/NwBrB,cAAL,GAAiB,K  
+NxBS,C/N2HR,CAAZ,C;O;K+NII3C,C;4FASA,yB;MAAA,wD;M/N8GA,4B;MAAA,iC;M+N9GA,4B;QAOsD,  
O/NkHX,gBAAY,Q+NIHO,iB/NepB,cAAL,GAAiB,K+NfQ,C/NkHP,CAAZ,C;O;K+NzH3C,C;gFAUA,yB;MAA  
A,4C;M/NyFA,iC;M+NzFA,sC;QAa6D,O/NsFhB,gB+Nf0B,W/NX9B,c+Nw8B,EAAW,QAAX,C/NsF1B,C;O;K  
+NnG7C,C;kFAeA,yB;MAAA,8C;M/N0EA,iC;M+N1EA,sC;QAa8D,O/NuEjB,gB+NvE2B,Y/N1B/B,c+N0B+B,E  
AAY,QAAX,C/NuE3B,C;O;K+NpF7C,C;ICtRA,qC;MAEI,SjOuIoD,ciOvI3C,CjOuI2C,EiOvIvC,CjOuIuC,C;MiOt

IpD,SjOsIoD,ciOtI3C,CjOsI2C,EiOtIvC,CjOsIuC,C;MiOrIpD,OjOmDkE,YiOnDvD,EjOmDwE,KAAjB,EiOnDjD,  
EjOmD8E,KAA7B,CiOnDvD,KAAAX,GjOkFsD,SiOIFjC,EjOkF2C,KAAK,GiOIF3C,EjOkFuD,KAAZ,IAAf,CiOIFt  
D,GjOqEqD,SAAU,CAaT,SiOIFpB,EjOkF8B,KAAK,GiOIF9B,EjOkF0C,KAAZ,IAAf,CaBS,MAAK,GiOrExB,Cj  
OqEmC,KAAAX,IAAf,C;K;liOIEzD,qC;MACI,SjNwIsD,eiNxI7C,CjNwI6C,EiNxIzC,CjNwIyC,C;MiNvItD,SjNuIs  
D,eiNvI7C,CjNul6C,EiNvIzC,CjNulyC,C;MiNtItD,OjNqDmE,aiNrDxD,EjNqD0E,KAAIB,EiNrDID,EjNqDgF,KA  
A9B,CiNrDxD,KAAAX,GjN+EwD,UiN/EnC,EjN+E8C,KAAK,UiN/E9C,EjN+E0D,KAAZ,CAAhB,CiN/ExD,GjNk  
EuD,UAAW,CAaV,UiN/EtB,EjN+EiC,KAAK,UiN/EjC,EjN+E6C,KAAZ,CAAhB,CaBU,MAAK,KiNIE3B,CjNkE  
sC,KAAAX,CAAhB,C;K;liN/D3D,uD;MAmBI,WAAO,CAAP,C;QAD8E,OjOwBZ,YiOvBID,KjOuBmE,KAAjB,Ei  
OvBzC,GjOuBsE,KAA7B,CiOvBID,KAD8D,GACHd,GADgD,GjOuDxB,SiOtDf,GjOsDyB,KAAK,GiOtdxB,mB  
AAiB,GAAjB,EAAaB,KAAaB,EjO2WV,SiO3WuC,IjO2WvC,CiO3WU,CjOsDoC,KAAZ,IAAf,C;aiOrDtD,WAA  
O,CAAP,C;QAF8E,OjOwBZ,YiOtBID,KjOsBmE,KAAjB,EiOtBzC,GjOsBsE,KAA7B,CiOtBID,KAF8D,GAehD,  
GAFgD,GjO0CzB,SiOxCd,GjOwCwB,KAAK,GiOxCvB,mBAAiB,KAAjB,EAAwB,GAAXB,EjO0WV,SiO1WwC,  
CAAC,IAAD,IjO0WxC,CiO1WU,CjOwCkC,KAAAX,IAAf,C;;QiOvC7C,MAAa,gCAAYB,eAAzB,C;K;IAGzB,uD;  
MAmBI,sBAAO,CAAP,C;QADkF,OjNqf,aiNPNd,KjNOqE,KAAIB,EiNP1C,GjNOwE,KAA9B,CiNPNd,KADkE,  
GACpD,GADoD,GjNkC1B,UiNjCjB,GjNiC4B,KAAK,UiNjC3B,mBAAiB,GAAjB,EAAaB,KAAaB,EjNkWP,UiNl  
WoC,IjNkWpC,CiNIWO,CjNiCuC,KAAZ,CAAhB,C;aiNhCxD,sBAAO,CAAP,C;QAFkF,OjNqf,aiNNnD,KjNMq  
E,KAAIB,EiNN1C,GjNMwE,KAA9B,CiNNnD,KAFkE,GAEPD,GAFOd,GjNqB3B,UiNnBhB,GjNmB2B,KAAK,  
KiNnB1B,mBAAiB,KAAjB,EAAwB,GAAXB,EjNiWP,UiNjWsC,IAAD,ajNiWrC,CiNjWO,CjNmBqC,KAAAX,CA  
AhB,C;;QiNIB/C,MAAa,gCAAYB,eAAzB,C;K;IhOIDC,sB;MAEtB,8B;MAFYD,gB;K;IAEzD,4B;MAAA,gC;MAC  
I,iBAGqC,WAAO,CAAP,C;MAErC,iBAGqC,WAAO,MAAP,C;MAErC,kBAGmC,C;MAEnC,iBAGkC,E;K;;IAN  
BtC,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;wGAsBA,iB;MAM0D,OAAa,0BA6OjC,SAAL,GAAiB,KA7OqB,EA  
AU,KF403C,KAAL,GAAiB,GE5OqB,C;K;oGAEvE,iB;MAOoE,OAAa,0BAoO3C,SAAL,GAAiB,KApO+B,EAA  
U,KAoOrD,KAAL,GAAiB,KApO+B,C;K;wGAEjF,yB;MA2PA,6B;MD5PA,8C;MCCA,wB;QAMyD,ODAS,YAA  
iB,CC8PhD,cAAU,SAAL,GAAiB,KAAaB,CD9PgD,MAAJB,ECAe,KDAc,KAA7B,C;O;KCNIE,C;wGAQA,yB;M  
A6PA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MfCA,wB;QAM0D,OeAS,aAAkB,CfgQhD,eAAW,oBAAL,SAAK,CA  
AL,YAAN,CehQgD,MAAIB,EfAgB,KeAc,KAA9B,C;O;KfNnE,C;8FAQA,yB;MA2OA,6B;MA3OA,wB;QAEsD,  
ODMD,cAAU,CC4O5B,cAAU,SAAL,GAAiB,KAAaB,CD5O4B,MAAK,GAAW,CD2O5C,cEjPsC,KFiP5B,KAA  
L,GAAiB,GAAaB,CC3O4C,MAAX,IAAf,C;O;KCRrD,C;8FAGA,yB;MAwOA,6B;MAxOA,wB;QAEuD,ODGF,c  
AAU,CC4O5B,cAAU,SAAL,GAAiB,KAAaB,CD5O4B,MAAK,GAAW,CC4O5C,cA/OuC,KA+O7B,KAAL,GAAi  
B,KAAaB,CD5O4C,MAAX,IAAf,C;O;KCLrD,C;8FAGA,yB;MAqOA,6B;MAROA,wB;QAEqD,ODAA,cAAU,CC  
4O5B,cAAU,SAAL,GAAiB,KAAaB,CD5O4B,MAAK,GCAI,KDAO,KAAAX,IAAf,C;O;KCFrD,C;8FAGA,yB;MA  
4OA,aAS6D,0B;MAT7D,+B;MA5OA,wB;QAEuD,OeAA,eAAW,CfmP7B,eAAW,oBAAL,SAAK,CAAL,YAAN,  
CenP6B,MAAK,KfAI,KeAO,KAAAX,CAAhB,C;O;KfFvD,C;gGAIA,yB;MA8NA,6B;MA9NA,wB;QAEuD,ODMD  
,cAAU,CC+N7B,cAAU,SAAL,GAAiB,KAAaB,CD/N6B,MAAK,GAAY,CD8N9C,cEpOwC,KFoO9B,KAAL,GA  
AiB,GAAaB,CC9N8C,MAAZ,IAAf,C;O;KCRtD,C;gGAGA,yB;MA2NA,6B;MA3NA,wB;QAEwD,ODGF,cAAU,  
CC+N7B,cAAU,SAAL,GAAiB,KAAaB,CD/N6B,MAAK,GAAY,CC+N9C,cAlOyC,KAKO/B,KAAL,GAAiB,KAA  
aB,CD/N8C,MAAZ,IAAf,C;O;KCLtD,C;gGAGA,yB;MAwNA,6B;MAxNA,wB;QAEsD,ODAA,cAAU,CC+N7B,c  
AAU,SAAL,GAAiB,KAAaB,CD/N6B,MAAK,GCAK,KDAO,KAAZ,IAAf,C;O;KCFtD,C;gGAGA,yB;MA+NA,a  
AS6D,0B;MAT7D,+B;MA/NA,wB;QAEwD,OeAA,eAAW,CfsO9B,eAAW,oBAAL,SAAK,CAAL,YAAN,CetO8B  
,MAAK,UfAK,KeAO,KAAZ,CAAhB,C;O;KfFxD,C;gGAIA,yB;MAiNA,6B;MAjNA,wB;QAEuD,ODMD,cAAe,  
YAAL,CCkN7B,cAAU,SAAL,GAAiB,KAAaB,CDIN6B,MAAK,EAAY,CDiN9C,cEvNwC,KFuN9B,KAAL,GAAi  
B,GAAaB,CCjN8C,MAAZ,CAAf,C;O;KCRtD,C;gGAGA,yB;MA8MA,6B;MA9MA,wB;QAEwD,ODGF,cAAe,Y  
AAL,CCkN7B,cAAU,SAAL,GAAiB,KAAaB,CDIN6B,MAAK,EAAY,CCkN9C,cArNyC,KAqN/B,KAAL,GAAiB,  
KAAaB,CDIN8C,MAAZ,CAAf,C;O;KCLtD,C;gGAGA,yB;MA2MA,6B;MA3MA,wB;QAEsD,ODAA,cAAe,YAA  
L,CCkN7B,cAAU,SAAL,GAAiB,KAAaB,CDIN6B,MAAK,ECAK,KDAO,KAAZ,CAAf,C;O;KCFtD,C;gGAGA,y  
B;MAkNA,aAS6D,0B;MAT7D,+B;MAINA,wB;QAEwD,OeAA,eAAW,CfyN9B,eAAW,oBAAL,SAAK,CAAL,Y  
AAN,CezN8B,MAAK,UfAK,KeAO,KAAZ,CAAhB,C;O;KfFxD,C;4FAIA,yB;MAoMA,6B;MD9LA,4C;MCNA,w  
B;QAEqD,ODMD,WCqMjB,cAAU,SAAL,GAAiB,KAAaB,CDrMiB,EDoMjB,cE1MoC,KF0M1B,KAAL,GAAiB,

GAAAtB,CCpMiB,C;O;KCRpD,C;4FAGA,yB;MAiMA,6B;MD9LA,4C;MCHA,wB;QAEsD,ODGF,WCqMjB,cAAU,SAAL,GAAiB,KAAAtB,CDrMiB,ECqMjB,cAxMqC,KAwM3B,KAAL,GAAiB,KAAAtB,CDrMiB,C;O;KCLpD,C;4FAGA,yB;MA8LA,6B;MD9LA,4C;MCAA,wB;QAEoD,ODAA,WCqMjB,cAAU,SAAL,GAAiB,KAAAtB,CDrMiB,ECaKb,KDAiB,C;O;KCFpD,C;4FAGA,yB;MAqMA,aAS6D,0B;MAT7D,+B;MerMA,8C;MfAA,wB;QAEsD,OeAA,Yf4MjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce5MiB,EfAmB,KeAnB,C;O;KfFd,C;4FAIA,yB;MAuLA,6B;MDzKA,kD;MCdA,wB;QAMqD,ODcD,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,ED2KjB,cEzLoC,KFyL1B,KAAL,GAAiB,GAAAtB,CC3KiB,C;O;KCpBpD,C;4FAOA,yB;MAGLA,6B;MDzKA,kD;MCPA,wB;QAMsD,ODOF,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,EC4KjB,cAnLqC,KAmL3B,KAAL,GAAiB,KAAAtB,CD5KiB,C;O;KCbpD,C;4FAOA,yB;MAyKA,6B;MDzKA,kD;MCAA,wB;QAMoD,ODAA,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,ECaKb,KDAiB,C;O;KCNpD,C;4FAOA,yB;MA4KA,aAS6D,0B;MAT7D,+B;Me5KA,oD;MfAA,wB;QAMsD,OeAA,ef+KjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce/KiB,EfAmB,KeAnB,C;O;KfNtD,C;sGAQA,yB;MA0JA,6B;MD9LA,4C;MCoCA,wB;QAMiD,ODxCG,WCqMjB,cAAU,SAAL,GAAiB,KAAAtB,CDrMiB,EDoMjB,cE5JqC,KF4J3B,KAAL,GAAiB,GAAAtB,CCpMiB,C;O;KCkCpD,C;sGAOA,yB;MAmJA,6B;MD9LA,4C;MC2CA,wB;QAMkD,OD/CE,WCqMjB,cAAU,SAAL,GAAiB,KAAAtB,CDrMiB,ECqMjB,cAtJsC,KAsJ5B,KAAL,GAAiB,KAAAtB,CDrMiB,C;O;KCycpD,C;sGAOA,yB;MA4IA,6B;MD9LA,4C;MCKDA,wB;QAMgD,ODtDI,WCqMjB,cAAU,SAAL,GAAiB,KAAAtB,CDrMiB,ECsDmB,KDtDnB,C;O;KCgDpD,C;sGAOA,yB;MA+IA,aAS6D,0B;MAT7D,+B;MerMA,8C;MfsDA,wB;QAMkD,Oe1DI,Yf4MjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce5MiB,Ef0DoB,Ke1DpB,C;O;KfoDtD,C;4FAQA,yB;MA6HA,6B;MDzKA,kD;MDuOJ,0B;MAAA,+B;ME3LI,wB;QAQ6C,O F8LR,eAAW,OC5OI,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,ED2KjB,cE7H4B,KF6HIB,KAAL,GAAiB,GAAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KEtMrC,C;4FASA,yB;MAoHA,6B;MDzKA,kD;MCwoJ,4B;MAAA,iC;MAnLI,wB;QAQ+C,OAsLR,gBAAy,QD7OC,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,EC4KjB,cArH8B,KAqHpB,KAAL,GAAiB,KAAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KA9LvC,C;4FASA,yB;MA2GA,6B;MDzKA,kD;MC8DA,wB;QAQ2C,ODhES,cC4KjB,cAAU,SAAL,GAAiB,KAAAtB,CD5KiB,ECgES,KDhET,C;O;KCwDpD,C;4FASA,yB;MA4GA,aAS6D,0B;MAT7D,+B;Me5KA,oD;MfgEA,wB;QAQ6C,OelES,ef+KjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce/KiB,EfkEU,KeIEV,C;O;Kf0DtD,C;4EAUA,yB;MAAA,4B;MAAA,iC;MAAA,mB;QAM2C,uBAAy,QAAL,SAAK,KAAZ,C;O;KAN3C,C;4EAQA,yB;MAAA,4B;MAAA,iC;MAAA,mB;QAM2C,uBAAy,QAAL,SAAK,KAAZ,C;O;KAN3C,C;oGAQA,yB;MAAA,8C;MAwEA,6B;MAxEA,wB;QAE+D,0BA+E5B,cAAU,SAAL,GAAiB,KAAAtB,CA/E4B,EA+E5B,cA/EqD,KA+E3C,KAAL,GAAiB,KAAAtB,CA/E4B,C;O;KAF/D,C;4FAIA,yB;MAAA,iC;M0LnNJ,4B;M1LmNI,wB;QAEqD,uB0LINiC,Q1LkN1B,IAAK,K0LINX,G1LkNoB,KAAAM,K0LINM,C1LkNjC,C;O;KAFrD,C;0FAGA,yB;MAAA,iC;M0LjNJ,4B;M1LiNI,wB;QAEoD,uB0LhNgC,Q1LgNzB,IAAK,K0LhNX,G1LgNmB,KAAM,K0LhNM,C1LgNhC,C;O;KAFpD,C;4FAGA,yB;MAAA,iC;M0L/MJ,4B;M1L+MI,wB;QAEqD,uB0L9MiC,Q1L8M1B,IAAK,K0L9MX,G1L8MoB,KAAM,K0L9MM,C1L8MjC,C;O;KAFrD,C;4EAGA,yB;MAAA,iC;M0L7MJ,4B;M1L6MI,mB;QAEkC,uB0L5MsB,QAAP,C1L4MR,S0L5Me,C1L4MtB,C;O;KAFIC,C;kFAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAL,SAAK,C;O;KAVxC,C;oFAWA,Y;MASqC,gB;K;gFACrC,Y;MASiC,OAAK,SAAL,GAAiB,K;K;kFACID,yB;MAAA,aASqD,0B;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,Y;O;KATnC,C;oFAWA,yB;MF+DJ,0B;MAAA,+B;ME/DI,mB;QASqC,OFiEE,eAAW,OEjEb,SFiEa,CAAX,C;O;KE1EvC,C;sFAUA,Y;MAEuC,W;K;kFACvC,yB;MAAA,6B;MAAA,mB;QASmC,qBAAU,SAAL,GAAiB,KAAAtB,C;O;KATnC,C;oFAUA,yB;MAAA,aAS6D,0B;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,YAAN,C;O;KATrC,C;oFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,K;K;sFAqDID,Y;MAMuC,OA3DD,SAAL,GAAiB,K;K;gCA6DID,Y;MAAyC,OAAQ,CA7DX,SAAL,GAAiB,KA6DD,Y;K;,,,;gCA3UrD,Y;MAAA,c;MAG6D,qD;MAH7D,a;K;8BAAA,iB;MAAA,2IAG6D,oCAH7D,G;K;0EA+UA,yB;MAAA,iC;MAAA,4B;QAW4C,uBAAy,SAAZ,C;O;KAX5C,C;4EAYA,yB;MAAA,iC;MAAA,4B;QAU6C,uBAAO,SAAP,C;O;KAV7C,C;4EAWA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW2C,uBAAy,QAAL,SAAK,CAAZ,C;O;KAX3C,C;4EAYA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW4C,uBAAy,QAAL,SAAK,SAAZ,C;O;KAX5C,C;IiC/WA,8B;MACqB,sB;K;wCAKjB,iB;MAM8C,OjCsVL,WiCtVK,AAQ,KAAR,CjCsVL,C;K;wCiCpVzC,wB;MAOI,AAQ,KAAR,IAAiB,KjC4OgB,K;K;mFiCxOp,Y;MAAQ,OAAA,YAAQ,O;K;qCAE9C,Y;MAC+E,gCAAS,YAAT,C;K;IAGzD,qC;MAAkC,yB;MAAjC,oB;MACnB,eAAoB,C;K;6CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;gDACvC,Y;MAA0D,Q;MAA9B,IAAI,eAAQ,YAAM,OAAiB,C;QAAA,OjCgUS,WiChUe,aAAM,mBAAN,EAAM,2BAA

N,OjCgUf,C;;QiChU8C,MAAM,2BAAUb,YAAM,WAA7B,C;K;;2CAG7F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,K;MAEzC,OAAe,WAAR,YAAQ,EAAS,OjCsNS,KiCtNIB,C;K;gDAGnB,oB;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;;QjB0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;UiB1nD6B,2BjB0nDR,OiB1nDQ,S;UAAA,W;YAAwB,oB AAR,YAAQ,EjB0nDhC,OhBx6CA,KiClNgC,C;WjB0nD/C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I,;;MiB3nDH,iB;K;oCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,uC;MAAA,qD;MA CgC,wBAAK,eAAW,IAAX,CAAL,C;MADhC,Y;K;;;qCAPJ,Y;MAAA,OAKqB,sDALrB,M;K;qCAAA,Y;MAAA ,c;MAKqB,wD;MALrB,a;K;mCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;kFAyDA,yB;MAAA,2C;MAWwC,0C;QA AA,wB;UAAW,OAAA,aAAK,KAAL,CjCiMV,K;S;O;MiC5MzC,6B;QAWI,OAAO,qBAAy,gCAAW,IAAX,GAA iB,wBAAjB,CAAZ,C;O;KAXX,C;oFACa,oB;MAGwE,e;K;Igm5ExE,sC;MAQ2D,OAAa,WAAb,SnOwQjB,KAA L,GAAiB,GmOxQkB,EAAS,KAAT,C;K;IAExE,sC;MAQ4D,OAAa,WAAb,SjO+PIB,KAAL,GAAiB,KiO/PmB,E AAS,KAAT,C;K;IAGzE,sC;MAQ0D,OAAc,WIOiR5B,oBkOjRc,SIOiRnB,KAAK,CAAL,iBkOjRiC,EAAS,KAAT ,C;K;IAExE,sC;MAOGD,uBAAc,SINyQvB,KkNzQS,EAA6B,WAAW,KAAX,CAA7B,C;K;IAGhD,8B;MAMqC,Q ;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAAd,oBAAwB,kBAAkB,SAAl B,C;K;IAGvE,+B;MAMuC,Q;MAAA,2DAAoB,kBAAkB,SAAlB,C;K;IAE3D,sC;MAOiD,Q;MAAA,2CAAe,KA Af,oBAAyB,kBAAkB,SAAlB,C;K;IAE1E,6B;MAMmC,Q;MAAA,yDAAkB,kBAAkB,SAAlB,C;K;IAErD,oC;MA O6C,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAEpE,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB ,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAMvE,kC;MAM4C, kCAAsB,EAAtB,C;K;IAE5C,2C;MASmB,Q;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I; OAA7C,UAAU,I;MACV,IIO/EkE,YkO+E9D,GIO/E+E,KAAjB,EAA6B,CD6P5D,SmO9KzB,6BAAM,UnO8K6B, KAAL,GAAiB,GAAtB,CC7P4D,MAA7B,CkO+E9D,IAAJ,C;QAA2B,OAAO,I;MACIC,OnO8OqC,UAAW,OmO9 OzC,GIOoL8B,KD0DW,CAAX,C;K;ImO3OzC,mC;MAM8C,mCAAuB,EAAvB,C;K;IAE9C,4C;MASmB,Q;MAA A,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;OAA7C,UAAU,I;MACV,IIOrGkE,YkOqG9D,GIOr G+E,KAAjB,EAA6B,CC8P5D,SiOzJzB,8BAAO,UjOyJ4B,KAAL,GAAiB,KAAtB,CD9P4D,MAA7B,CkOqG9D,I AAJ,C;QAA4B,OAAO,I;MACnC,OjOyNuC,WAAy,QiOzN5C,GIOwKgC,KCiDY,CAAZ,C;K;IiOtN3C,iC;MAM 0C,iCAAqB,EAAR,B,C;K;IAE1C,0C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MACIB,IAAI,WAAU,CAA d,C;QAAiB,OAAO,I;MAExB,YAAkB,4BAAK,U;MACvB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MACHb,IAAI,Y AAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAER,Q AAQ,C;;MAGZ,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,alOuMmC,SkOvMtB,KIOuMsB,C;MkOtMnC,aAAa, W;MACb,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAE Z,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,IIONJ8D,YkOmJ1D,MIONJ2E,KAAjB,EkOmJjD,clOnJ8E,KAA7 B,CkOmJ1D,IAAJ,C;UACI,IAAI,+CAAkB,gBAAIB,QAAJ,C;YACI,iBIO5FwC,WkO4FvB,KIO5FuB,EkO4Ff,Ml O5Fe,C;YkO8FxC,IIOvJsD,YkOuJlD,MIOvJmE,KAAjB,EkOuJzC,clOvJsE,KAA7B,CkOuJlD,IAAJ,C;cACI,OAA O,I;;YAGX,OAAO,I;;SAIf,SIONHkD,SAAe,YkOmHjE,MIONH4D,KAAK,EkOmHvD,MIONHmE,KAAZ,CAAF,C; QkOqHlD,mBAAmB,M;QACnB,SIOhJiD,SkOgJjD,MIOhJ2D,KAAK,GAAW,CAkU5C,SkOILrB,KIOkLqB,CAIU 4C,MAAX,IAAF,C;QkOiJjD,IIONK8D,YkOmK1D,MIONK2E,KAAjB,EkOmKjD,YIONK8E,KAA7B,CkOmK1D,I AAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K;IAGX,kC;MAM4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MASI,WAA W,KAAX,C;MAEA,aAAa,SAAK,O;MACIB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAmB,6BAAM, U;MACzB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MACHb,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IA Aae,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAER,QAAQ,C;;MAIZ,uBAAuB,gD;MAEvB,qBAAqB ,gB;MACrB,alN0IqC,UAAW,oBkN1InC,KIN0ImC,CAAX,C;MkNzIrC,aAAa,2B;MACb,aAAU,KAAV,MAAsB, MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,O AAO,I;QACtB,IIN5M+D,akN4M3D,MIN5M6E,KAAIB,EkN4MID,clN5MgF,KAA9B,CkN4M3D,IAAJ,C;UACI,I AAI,+CAAkB,gBAAIB,QAAJ,C;YACI,iBIN1J0C,YkN0JzB,KIN1JyB,EkN0Jb,MIN1JiB,C;YkN4J1C,IINhNuD,a kNgNnD,MINhNqE,KAAIB,EkNgN1C,clNhNwE,KAA9B,CkNgNnD,IAAJ,C;cACI,OAAO,I;;YAGX,OAAO,I;;S AIf,SINjLoD,UkNiLpD,MINjL+D,KAAK,UkNiL1D,MINjLsE,KAAZ,CAAhB,C;QkNmLpD,mBAAmB,M;QACn B,SIN9MmD,UkN8MnD,MIN9M8D,KAAK,KAAW,ChBsQ7C,UAAW,oBAAL,CayDR,SkOjHrB,KIOiHqB,CAz DQ,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C;QkN+MnD,IIN5N+D,akN4N3D,MIN5N6E,KAAIB,EkN





```
.....
.....
.....
.....
.....;So
IjE8B,iB;QAGD,iB;gC/ImBqB,I;IW8C9C,aAAJ,OAAO,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAf,IAA4B,CAAC
,CAAC,OAAO,SAAS,K;aAChE,MAAJ,GAAY,iBAAhB,OAA6B,OAAb,CAAZ,GAAoD,gC;uDGI1EJ,mC,EAAuB,
wB;ea0YrB,MAAW,KGzYIC,GHyYkC,EGzY1B,GHyY0B,C;eAAX,MAAW,KGxYIC,GHwYkC,EGxY1B,GHwY
0B,C;sBWpUnC,gBAA8B,CAA9B,O;oCnGkOc,eAAmB,oCAAnB,C;yB8GnKL,C;gCAKY,eAAiB,OAAL,GAAK,
CAAjB,EAAgC,OAAL,GAAK,CAAhC,EAA+C,OAAL,GAAK,CAA/C,E;uBAwDd,K;qB4CnGK,C;yBACI,C;sBA
CH,C;kBACJ,C;iBACD,C;mBACE,C;sB3KuyCH,O;;;;uBkd3zCzB,W0JoCkC,yB1JpCIC,C;;;;CzEjFX,E;"}
```

Found in path(s):

\* /opt/cola/permits/1418559510\_1663298237.5506215/0/kotlin-1-6-10-2-tgz/package/kotlin.js.map

# 1.340 akka-protobuf 2.5.31

## 1.340.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Copyright 2008 Google Inc. All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// * Neither the name of Google Inc. nor the names of its
// this software without specific prior written permission.
```

Found in path(s):

```
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/CodedOutputStream.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/AbstractMessage.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/ByteString.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/UnknownFieldSet.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/Descriptors.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/RopeByteString.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/UninitializedMessageException.java
* /opt/cola/permits/1473592072_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-
jar/akka/protobuf/UnmodifiableLazyStringList.java
```

\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/AbstractMessageLite.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/Internal.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/WireFormat.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/ExtensionRegistry.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/Service.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/RpcChannel.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/FieldSet.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/ServiceException.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/MessageLite.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/LazyStringArrayList.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/MessageLiteOrBuilder.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/Parser.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/AbstractParser.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/RpcController.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/GeneratedMessageLite.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/InvalidProtocolBufferException.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/RepeatedFieldBuilder.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/BlockingRpcChannel.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/RpcCallback.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/MessageOrBuilder.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/SingleFieldBuilder.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/DynamicMessage.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/TextFormat.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/CodedInputStream.java

\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/Message.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/RpcUtil.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/ExtensionRegistryLite.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/LazyStringList.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/GeneratedMessage.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/ProtocolMessageEnum.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/LazyField.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/LiteralByteString.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/SmallSortedMap.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/BlockingService.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/BoundedByteString.java  
\* /opt/cola/permits/1473592072\_1668494947.0636454/0/akka-protobuf-2-11-2-5-31-sources-1-jar/akka/protobuf/Utf8.java

## 1.341 jdbi3-json 3.27.2

### 1.341.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

\* /opt/cola/permits/1341639998\_1654785831.0209615/0/jdbi3-json-3-27-2-sources-jar/org/jdbi/v3/json/Json.java  
\* /opt/cola/permits/1341639998\_1654785831.0209615/0/jdbi3-json-3-27-2-sources-

```
jar/org/jdbi/v3/json/EncodedJson.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/JsonPlugin.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/JsonMapper.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/internal/JsonArgumentFactory.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/internal/UnimplementedJsonMapper.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/internal/JsonColumnMapperFactory.java
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-
jar/org/jdbi/v3/json/JsonConfig.java
No license file was found, but licenses were detected in source scan.
```

```
<!--
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~ http://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->
```

```
Found in path(s):
* /opt/cola/permits/1341639998_1654785831.0209615/0/jdbi3-json-3-27-2-sources-jar/META-
INF/maven/org.jdbi/jdbi3-json/pom.xml
```

## 1.342 reactive-streams v1.0.3

### 1.342.1 Available under license :

Copyright Statement for Contributions to the Reactive Streams Project

=====

I hereby represent that all present, past and future contributions I make to the Reactive Streams project (which includes all repositories owned by the reactive-streams github organization) are governed by the Creative Commons Zero 1.0 Universal copyright statement, placing my contributions in the public domain. This entails that to the extent possible under law I waive all copyright and related or neighboring rights to the code or documents I contribute. I also represent that I have the authority to perform the above waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the root of the reactive-streams repository at <https://github.com/reactive-streams/reactive-streams-jvm/blob/master/COPYING>.

Underwriting parties:

github name | Real Name, Email Address used for git commits, Company

-----+-----  
rkuhn | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.  
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.  
viktorklang | Viktor Klang, viktorklang@gmail.com, Typesafe Inc.  
smaldini | Stephane Maldini, stephane.maldini@gmail.com, Pivotal Software Inc.  
savulchik | Stanislav Savulchik, s.savulchik@gmail.com  
ktoso | Konrad Malawski, konrad.malawski@project13.pl, Typesafe Inc.  
ouertani | Slim Ouertani, ouertani@gmail.com  
2m | Martynas Mickevicius, mmartynas@gmail.com, Typesafe Inc.  
ldaley | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.  
colingodsey | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.  
davidmoten | Dave Moten, davidmoten@gmail.com  
briantopping | Brian Topping, brian.topping@gmail.com, Mauswerks LLC  
rstoyanchev | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal  
BjornHamels | Bjrn Hamels, bjorn@hamels.nl  
JakeWharton | Jake Wharton, jakewharton@gmail.com  
anthonyvdotbe | Anthony Vanelverdinghe, anthonyv.be@outlook.com  
seratch | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.  
akarnokd | David Karnok, akarnokd@gmail.com  
egetman | Evgeniy Getman, getman.eugene@gmail.com  
patriknw | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc  
angelsanz | ngel Sanz, angelsanz@users.noreply.github.com  
shenghaiyang | , shenghaiyang@aliyun.com  
kiiadi | Kyle Thomson, kylthoms@amazon.com, Amazon.com  
jroper | James Roper, james@jazzy.id.au, Lightbend Inc.  
olegdokuka | Oleh Dokuka, shadowgun@i.ua, Netifi Inc.  
Scottmitch | Scott Mitchell, scott\_mitchell@apple.com, Apple Inc.  
retronym | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Creative Commons Legal Code

CC0 1.0 Universal

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

## Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

- i. the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
- ii. moral rights retained by the original author(s) and/or performer(s);
- iii. publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
- iv. rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
- v. rights protecting the extraction, dissemination, use and reuse of data in a Work;
- vi. database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
- vii. other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national

implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

- a. No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.
- b. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of

title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

- c. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.
- d. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with this code has waived all copyright and related or neighboring rights to this code.

You should have received a copy of the CC0 legalcode along with this work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

## 1.343 apache-kafka 2.8.1

### 1.343.1 Available under license :

Apache Kafka

Copyright 2021 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

This distribution has a binary dependency on jersey, which is available under the CDDL License. The source code of jersey can be found at <https://github.com/jersey/jersey/>.

The streams-scala (streams/streams-scala) module was donated by Lightbend and the original code was copyrighted by them:

Copyright (C) 2018 Lightbend Inc. <https://www.lightbend.com>

Copyright (C) 2017-2018 Alexis Seigneurin.

This project contains the following code copied from Apache Hadoop:  
clients/src/main/java/org/apache/kafka/common/utils/PureJavaCrc32C.java

Some portions of this file Copyright (c) 2004-2006 Intel Corporation and licensed under the BSD license.

This project contains the following code copied from Apache Hive:

streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

Apache License



## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.344 dropwizard-validation-support 2.0.28

## 1.344.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.



## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.345 cloudevents---api 2.2.0

## 1.345.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2018-Present The CloudEvents Authors

\* <p>

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\* <p>

\* <http://www.apache.org/licenses/LICENSE-2.0>

\* <p>

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*  
\*/

Found in path(s):

\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/lang/Nullable.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventContextReader.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventContextWriter.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventRWException.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEvent.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventReader.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventDataMapper.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventExtension.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventContext.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventWriterFactory.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventAttributes.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/types/Time.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventData.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/SpecVersion.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventWriter.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventExtensions.java

No license file was found, but licenses were detected in source scan.

<!--

~ Copyright 2018-Present The CloudEvents Authors

~ <p>

~ Licensed under the Apache License, Version 2.0 (the "License");

~ you may not use this file except in compliance with the License.

~ You may obtain a copy of the License at

~ <p>

~ <http://www.apache.org/licenses/LICENSE-2.0>

~ <p>

~ Unless required by applicable law or agreed to in writing, software

~ distributed under the License is distributed on an "AS IS" BASIS,  
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
~ See the License for the specific language governing permissions and  
~ limitations under the License.  
~  
-->

Found in path(s):

\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/META-INF/maven/io.cloudevents/cloudevents-api/pom.xml

## 1.346 paranamer-core 2.8

### 1.346.1 Available under license :

<OWNER> = Regents of the University of California

<ORGANIZATION> = University of California, Berkeley

<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.347 apache-http-client 4.5.13

## 1.347.1 Available under license :

Apache HttpComponents Client  
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

=====

This project includes Public Suffix List copied from  
<[https://publicsuffix.org/list/effective\\_tld\\_names.dat](https://publicsuffix.org/list/effective_tld_names.dat)>  
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <<http://mozilla.org/MPL/2.0/>>

### Mozilla Public License Version 2.0

=====

#### 1. Definitions

-----

##### 1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

##### 1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

##### 1.3. "Contribution"

means Covered Software of a particular Contributor.

##### 1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

##### 1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

##### 1.6. "Executable Form"

means any form of the work other than Source Code Form.



1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

## 2. License Grants and Conditions

-----

### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

- (a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

### 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

### 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software; or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

## 3. Responsibilities

-----

### 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

### 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this

License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

-----

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute

or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

-----

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

\*\*\*\*\*

\* \* \* \* \*

\* 6. Disclaimer of Warranty \*  
\* ----- \*  
\* \* \* \* \*

\* Covered Software is provided under this License on an "as is" \*  
\* basis, without warranty of any kind, either expressed, implied, or \*  
\* statutory, including, without limitation, warranties that the \*  
\* Covered Software is free of defects, merchantable, fit for a \*  
\* particular purpose or non-infringing. The entire risk as to the \*  
\* quality and performance of the Covered Software is with You. \*  
\* Should any Covered Software prove defective in any respect, You \*  
\* (not any Contributor) assume the cost of any necessary servicing, \*  
\* repair, or correction. This disclaimer of warranty constitutes an \*  
\* essential part of this License. No use of any Covered Software is \*  
\* authorized under this License except under this disclaimer. \*

\*

\*\*\*\*\*

\*\*\*\*\*

\*

\* 7. Limitation of Liability \*  
 \* ----- \*  
 \* \*  
 \* Under no circumstances and under no legal theory, whether tort \*  
 \* (including negligence), contract, or otherwise, shall any \*  
 \* Contributor, or anyone who distributes Covered Software as \*  
 \* permitted above, be liable to You for any direct, indirect, \*  
 \* special, incidental, or consequential damages of any character \*  
 \* including, without limitation, damages for lost profits, loss of \*  
 \* goodwill, work stoppage, computer failure or malfunction, or any \*  
 \* and all other commercial damages or losses, even if such party \*  
 \* shall have been informed of the possibility of such damages. This \*  
 \* limitation of liability shall not apply to liability for death or \*  
 \* personal injury resulting from such party's negligence to the \*  
 \* extent applicable law prohibits such limitation. Some \*  
 \* jurisdictions do not allow the exclusion or limitation of \*  
 \* incidental or consequential damages, so this exclusion and \*  
 \* limitation may not apply to You. \*  
 \* \*  
 \*\*\*\*\*

8. Litigation  
 -----

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous  
 -----

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License  
 -----

## 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

## 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

## 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

## 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

### Exhibit A - Source Code Form License Notice

-----

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

### Exhibit B - "Incompatible With Secondary Licenses" Notice

-----

This Source Code Form is "Incompatible With Secondary Licenses", as

defined by the Mozilla Public License, v. 2.0.

# 1.348 scala-xml 1.3.0

## 1.348.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications



represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
  
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

## 1.349 hk2-guice-bridge 2.5.0

### 1.349.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

Copyright (c) 2013, 2018 Oracle and/or its affiliates. All rights reserved.

This program and the accompanying materials are made available under the

terms of the Eclipse Public License v. 2.0, which is available at

<http://www.eclipse.org/legal/epl-2.0>.

This Source Code may also be made available under the following Secondary

Licenses when the conditions for such availability set forth in the

Eclipse Public License v. 2.0 are satisfied: GNU General Public License,

version 2 with the GNU Classpath Exception, which is available at

<https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

Found in path(s):

\* /opt/cola/permits/1473577722\_1668796729.3346813/0/guice-bridge-2-5-0-jar/META-

INF/maven/org.glassfish.hk2/guice-bridge/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: HK2 Guice Bridge

Bundle-License: <http://www.eclipse.org/legal/epl-2.0>, <https://www.gnu.org>.

org/software/classpath/license.html  
Bundle-SymbolicName: org.glassfish.hk2.guice-bridge  
Archiver-Version: Plexus Archiver  
Built-By: default  
Bnd-LastModified: 1546444247427  
Bundle-ManifestVersion: 2  
Bundle-DocURL: http://www.oracle.com  
Bundle-Vendor: Oracle Corporation  
Import-Package: com.google.inject;version="[1.4,2)",com.google.inject.matcher;version="[1.4,2)",com.google.inject.spi;version="[1.4,2)",javax.inject;version="[1.0,2)",org.glassfish.hk2.api;version="[2.5,3)",org.glassfish.hk2.utilities;version="[2.5,3)",org.glassfish.hk2.utilities.reflection;version="[2.5,3)",org.jvnet.hk2.annotations;version="[2.5,3)"  
Tool: Bnd-2.1.0.20130426-122213  
Export-Package: org.jvnet.hk2.guice.bridge.api;uses:="com.google.inject,javax.inject,org.glassfish.hk2.api,org.jvnet.hk2.annotations";version="2.5.0"  
Bundle-Name: HK2 Guice Bridge  
Bundle-Version: 2.5.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_181

Found in path(s):

\* /opt/cola/permits/1473577722\_1668796729.3346813/0/guice-bridge-2-5-0-jar/META-INF/MANIFEST.MF

# 1.350 io-grpc-grpc-netty 1.39.0

## 1.350.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
  
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all



other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2020 Istio Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Envoy

Copyright 2016-2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner].

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

protoc-gen-validate

Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.

zero-allocation-hashing

Copyright 2015 Higher Frequency Trading <http://www.higherfrequencytrading.com>

Licensed under Apache License 2.0. See LICENSE for terms.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,



any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

/\*

\* Copyright 2015 The gRPC Authors

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

-----  
This product contains a modified portion of 'OkHttp', an open source  
HTTP & SPDY client for Android and Java applications, which can be obtained  
at:

- \* LICENSE:
  - \* okhttp/third\_party/okhttp/LICENSE (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/square/okhttp>
- \* LOCATION\_IN\_GRPC:
  - \* okhttp/third\_party/okhttp

This product contains a modified portion of 'Envoy', an open source  
cloud-native high-performance edge/middle/service proxy, which can be  
obtained at:

- \* LICENSE:
  - \* xds/third\_party/envoy/LICENSE (Apache License 2.0)
- \* NOTICE:
  - \* xds/third\_party/envoy/NOTICE
- \* HOMEPAGE:
  - \* <https://www.envoyproxy.io>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',  
an open source protoc plugin to generate polyglot message validators,  
which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/protoc-gen-validate/LICENSE (Apache License 2.0)
- \* NOTICE:
  - \* xds/third\_party/protoc-gen-validate/NOTICE
- \* HOMEPAGE:
  - \* <https://github.com/envoyproxy/protoc-gen-validate>
- \* LOCATION\_IN\_GRPC:
  - \* xds/third\_party/protoc-gen-validate

This product contains a modified portion of 'udpa',  
an open source universal data plane API, which can be obtained at:

- \* LICENSE:
  - \* xds/third\_party/udpa/LICENSE (Apache License 2.0)

- \* HOMEPAGE:
  - \* <https://github.com/cncf/udpa>
- \* LOCATION\_IN\_GRPC:
  - \* [xds/third\\_party/udpa](xds/third_party/udpa)

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

## 1.351 automation 1.11-8

### 1.351.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* dk.brics.automaton

\*

\* Copyright (c) 2001-2011 Anders Moeller

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\* 3. The name of the author may not be used to endorse or promote products

\* derived from this software without specific prior written permission.

\*

\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR

\* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

\* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

\* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

\* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



\*/

Found in path(s):

\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/BasicAutomata.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/TransitionComparator.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/DatatypesAutomatonProvider.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/Automaton.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/Datatypes.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/SpecialOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/BasicOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/StatePair.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/MinimizationOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/State.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/ShuffleOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/RunAutomaton.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/RegExp.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/AutomatonProvider.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/Transition.java

No license file was found, but licenses were detected in source scan.

/\*

\* dk.brics.automaton - AutomatonMatcher

\*

\* Copyright (c) 2008-2011 John Gibson

\* All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without

\* modification, are permitted provided that the following conditions

\* are met:

\* 1. Redistributions of source code must retain the above copyright

\* notice, this list of conditions and the following disclaimer.

\* 2. Redistributions in binary form must reproduce the above copyright

\* notice, this list of conditions and the following disclaimer in the

\* documentation and/or other materials provided with the distribution.

\* 3. The name of the author may not be used to endorse or promote products

\* derived from this software without specific prior written permission.

\*  
\* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR  
\* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES  
\* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  
\* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,  
\* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT  
\* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,  
\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
\*/

Found in path(s):

\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/AutomatonMatcher.java

## 1.352 feign-jackson 8.18.0

### 1.352.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*  
\* Copyright 2013 Netflix, Inc.  
\*  
\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1274699876\_1645234767.83/0/feign-jackson-8-18-0-sources-  
jar/feign/jackson/JacksonEncoder.java  
\* /opt/cola/permits/1274699876\_1645234767.83/0/feign-jackson-8-18-0-sources-  
jar/feign/jackson/JacksonDecoder.java

# 1.353 metrics-integration-for-logback 4.1.29

## 1.353.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.logback  
Build-Jdk-Spec: 1.8  
Bundle-Description: An instrumented appender for Logback.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Logback  
Bundle-SymbolicName: io.dropwizard.metrics.logback  
Bundle-Version: 4.1.29  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.1.29"  
Implementation-Title: Metrics Integration for Logback  
Implementation-Version: 4.1.29  
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.1,5)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1473591969\_1668802080.1865313/0/metrics-logback-4-1-29-jar/META-INF/MANIFEST.MF

# 1.354 hystrix-metrics-event-stream 1.5.18

## 1.354.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or

indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

# 1.355 caffeine-cache 3.0.3

## 1.355.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-
jar/com/github/benmanes/caffeine/cache/MpscGrowableArrayQueue.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-
jar/com/github/benmanes/caffeine/cache/Ticker.java
```

```
* /opt/cola/permits/1341639961_1654809995.3473003/0/caffeine-3-0-3-sources-
jar/com/github/benmanes/caffeine/cache/stats/CacheStats.java
```

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LinkedDeque.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Policy.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalListener.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/stats/DisabledStatsCounter.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Weigher.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedLocalCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Cache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalCause.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/WriteOrderDeque.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/UnboundedLocalCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/AccessOrderDeque.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Caffeine.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/LoadingCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/AbstractLinkedDeque.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/CacheLoader.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2015 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software



\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.

\*/

/\*

\* Written by Doug Lea with assistance from members of JCP JSR-166  
\* Expert Group and released to the public domain, as explained at  
\* <http://creativecommons.org/publicdomain/zero/1.0/>

\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/StripedBuffer.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2017 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/Expiry.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/TimerWheel.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2018 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/AsyncCache.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalAsyncCache.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2016 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/AsyncCacheLoader.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java

No license file was found, but licenses were detected in source scan.

// Copyright 2021 Ben Manes. All Rights Reserved.

// Licensed under the Apache License, Version 2.0 (the "License");

// you may not use this file except in compliance with the License.

// You may obtain a copy of the License at

// <http://www.apache.org/licenses/LICENSE-2.0>

// distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWAR.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SSLSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/PSAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/FDARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMRAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PD.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SILSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SSLMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-



jar/com/github/benmanes/caffeine/cache/WSSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SSL.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/PSAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/WILSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSL.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/WS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIL.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/WILMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalCacheFactory.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/WISMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SSSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-



jar/com/github/benmanes/caffeine/cache/SSSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FD.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SI.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WI.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/PDAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SILSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/FSAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWARMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIL.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SILSMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAWRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FDAMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WISMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/NodeFactory.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/PWAWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SISMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWARMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/WIMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMWWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLMWW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSLSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SILMWA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/SIMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PDWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMSW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSRMS.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILMSWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WIMWAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FWWRMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/PWAWMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSLSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WLSMSA.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SIMSAR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/FSR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMSAW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSMWAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSMSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WILSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SSSAWR.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WSSMW.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-



jar/com/github/benmanes/caffeine/cache/WSLMSR.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2019 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Scheduler.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Pacer.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2015 Ben Manes. All Rights Reserved.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java

\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-

jar/com/github/benmanes/caffeine/cache/Async.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/References.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/stats/package-info.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/Node.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/package-info.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/SerializationProxy.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalCache.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java  
\* /opt/cola/permits/1341639961\_1654809995.3473003/0/caffeine-3-0-3-sources-  
jar/com/github/benmanes/caffeine/cache/LocalManualCache.java

# 1.356 zip4j 2.10.0

## 1.356.1 Available under license :

Sequence Library License

This license applies to all portions of the Sequence library, which are not externally-maintained libraries (e.g. junit or jsch).

=====  
Copyright (c) 2000-2008 SyntEvo GmbH, Ainring, GERMANY.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by SyntEvo GmbH, Airing, GERMANY." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The hosted project names must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact info@syntevo.com.

5. Neither the name of SyntEvo GmbH nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL SyntEvo GmbH OR HIS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.357 fabric8-:::-kubernetes-model-:::-common

## 4.10.3

### 1.357.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of



the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 1.358 netty/transport/classes/epoll

### 4.1.76.Final

#### 1.358.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Classes/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.classes.epoll

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-classes-epoll

Implementation-Version: 4.1.76.Final

Built-By: root

Bnd-LastModified: 1649784029628

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,io.netty.util.concurrent";version="4.1.76"

Bundle-Name: Netty/Transport/Classes/Epoll

Bundle-Version: 4.1.76.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_322

Implementation-URL: <https://netty.io/netty-transport-classes-epoll/>

Found in path(s):

\* /opt/cola/permits/1340031687\_1654680249.7624245/0/netty-transport-classes-epoll-4-1-76-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<!--

~ Copyright 2021 The Netty Project

~

~ The Netty Project licenses this file to you under the Apache License,  
~ version 2.0 (the "License"); you may not use this file except in compliance  
~ with the License. You may obtain a copy of the License at:

~

~ <https://www.apache.org/licenses/LICENSE-2.0>

~

~ Unless required by applicable law or agreed to in writing, software  
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT  
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the  
~ License for the specific language governing permissions and limitations  
~ under the License.

-->

Found in path(s):

\* /opt/cola/permits/1340031687\_1654680249.7624245/0/netty-transport-classes-epoll-4-1-76-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml

## 1.359 akka-http 10.1.12

### 1.359.1 Available under license :

This software is licensed under the Apache 2 license, quoted below.

Copyright 2009-2019 Lightbend Inc. [<https://www.lightbend.com>]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

[<http://www.apache.org/licenses/LICENSE-2.0>]

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.360 testcontainers-::-apache-kafka 1.16.0

## 1.360.1 Available under license :

ibmcom/db2:11.5.0.0a

The MIT License (MIT)

Copyright (c) 2017 - 2019 G DATA Software AG and other authors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2017 Capital One Services, LLC and other authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2015-2019 Richard North

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

## 1.361 error\_prone\_annotations 2.7.1

### 1.361.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2014 The Error Prone Authors.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/NoAllocation.java

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2017 The Error Prone Authors.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotCall.java

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

\* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright 2016 The Error Prone Authors.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.



- \* See the License for the specific language governing permissions and
- \* limitations under the License.

\*/

Found in path(s):

- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/FormatString.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotMock.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/FormatMethod.java

No license file was found, but licenses were detected in source scan.

/\*

- \* Copyright 2015 The Error Prone Authors.
- \*
- \* Licensed under the Apache License, Version 2.0 (the "License");
- \* you may not use this file except in compliance with the License.
- \* You may obtain a copy of the License at
- \*
- \* <http://www.apache.org/licenses/LICENSE-2.0>
- \*
- \* Unless required by applicable law or agreed to in writing, software
- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.

\*/

Found in path(s):

- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/Var.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/Immutable.java
- \* /opt/cola/permits/1288519880\_1647351834.56/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java

```
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2021 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
* /opt/cola/permits/1288519880_1647351834.56/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/InlineMe.java
```

# 1.362 fabric8-::-kubernetes-model-::-events

## 4.10.3

### 1.362.1 Available under license :

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.363 micronaut-coherence 3.0.1

## 1.363.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

Copyright 2017-2020 original authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
#
```

io.micronaut.coherence.config.MicronautSystemPropertyResolver

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.tangosol.coherence.config.SystemPropertyResolver
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2017-2020 original authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/config/CoherenceDefaultProperties.java
```

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/BeanBuilder.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/package-info.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/CoherenceContext.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerBuilder.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionType.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/BeanProcessor.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/SubscriberExecutorServiceConfig.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/config/MicronautSystemPropertyResolver.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/package-info.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/package-info.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionConfigurationProvider.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/AbstractSessionConfigurationBean.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/MicronautNamespaceHandler.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/TopicKey.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/JsonSerializerFactory.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerConfigurer.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/package-info.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SerializerFactories.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionConfigurationBean.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/InjectorImpl.java

No license file was found, but licenses were detected in source scan.

#

# Copyright 2017-2020 original authors

#

# Licensed under the Apache License, Version 2.0 (the "License");

# you may not use this file except in compliance with the License.

# You may obtain a copy of the License at



```
#
https://www.apache.org/licenses/LICENSE-2.0
#
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
#
```

io.micronaut.coherence.grpc.GrpcServerBuilder\$GrpcServerBuilderProviderBean

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.oracle.coherence.grpc.proxy.GrpcServerBuilderProvider
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2017-2021 original authors
```

```
*
```

```
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
```

```
*
```

```
* https://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
* See the License for the specific language governing permissions and
```

```
* limitations under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FilterFactories.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/ExtractorFactory.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Updated.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/WhereFilter.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventArgumentBinder.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/NamedTopicFactories.java
```

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Activated.java
```

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/MapEventTransformerBinding.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Committed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherenceEventListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Scope.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/package-info.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Utils.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/AnnotationLiteral.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SerializerFormat.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Departed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Removed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Stopping.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ChainedExtractor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Syncing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/PropertyExtractor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Started.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FilterFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Stopped.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Recovered.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Departing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Error.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ParticipantName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/exceptions/CoherenceSubscriberException.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/MapEventTransformerFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/FilterBinding.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Synced.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/AnnotatedElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventArgumentBinderRegistry.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Starting.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ConfigUri.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Inserted.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SubscriberGroup.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Synchronous.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommittingRemote.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/ExecutableMethodMapListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Assigned.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FactoryQualifier.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ScopeName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Committing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Processor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommitStrategy.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Connecting.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherenceTopicListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Executed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/CoherencePublisherIntroductionAdvice.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Executing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SessionName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherencePublisher.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/ExtractorFactories.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommittingLocal.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/BaseExecutableMethodObserver.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/SubscriberExceptionHandler.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/TypedElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Inserting.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/PofExtractor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementValueBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/CoherenceEventListenerProcessor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/AlwaysFilter.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Destroyed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Deleted.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Rollback.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/AnnotatedMapListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Arrived.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Truncated.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/CoherenceTopicListenerProcessor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ExtractorBinding.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Created.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ServiceName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/DefaultTopicBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/View.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Topic.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Replicating.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Updating.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CacheName.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Name.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Backlog.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementArgumentBinderRegistry.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Removing.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Activating.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventObserverSupport.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/CoherenceFactory.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Lite.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/MapName.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Topics.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/ExecutableMethodEventObserver.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Disposing.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Disconnected.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Lost.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/NamedCacheFactories.java  
\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/MapEventTransformerFactories.java

No license file was found, but licenses were detected in source scan.

```

Copyright 2017-2020 original authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
#
```

io.micronaut.coherence.grpc.GrpcServerConfigurer\$GrpcServerConfigurationBean

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-
INF/services/com.oracle.coherence.grpc.proxy.GrpcServerConfiguration
No license file was found, but licenses were detected in source scan.
```

```

Copyright 2017-2020 original authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
#
```

io.micronaut.coherence.InjectorImpl

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-
INF/services/com.oracle.coherence.inject.Injector
```

# 1.364 dropwizard-jackson-support 2.0.28

## 1.364.1 Available under license :

Dropwizard

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and



- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
  
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

#### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.365 apache-yetus-audience-annotations

## 0.12.0

### 1.365.1 Available under license :

Apache Yetus  
Copyright 2008-2020 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

---

Additional licenses for the Apache Yetus Source/Website:

---

See LICENSE for terms.

```
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
#
http://www.apache.org/licenses/LICENSE-2.0
#
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

limitations under the License.

----

Additional licenses for the Apache Yetus Source/Website:

----

This project incorporates portions of the Bootstrap project available under the MIT license:

The MIT License (MIT)

Copyright (c) 2011-2015 Twitter, Inc

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----

This project incorporates NORMALIZE.css as bundled with the Twitter Bootstrap project which is released under the same license as Bootstrap.

Copyright Nicolas Gallagher and Jonathan Neal

----

This project incorporates GLYPHICONS FREE as bundled with the Twitter Bootstrap project which are released under the same license as Bootstrap.

Copyright (c) 2010 - 2015 Jan Kovarik

----

This project incorporates portions of the Font Awesome project available



under the MIT license and SIL OFL 1.1 .

Copyright (c) 2015 Dave Gandy

The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----  
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007  
-----

#### PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

#### DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

#### PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

- 1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
- 2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
- 3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.
- 4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.
- 5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

## TERMINATION

This license becomes null and void if any of the above conditions are not met.

## DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

----

This project incorporates portions of the JQuery project available under the MIT license:

Copyright jQuery Foundation and other contributors, <https://jquery.org/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----

This project incorporates via jQuery portions of the Sizzle project available under the MIT license:

Copyright JS Foundation and other contributors, <https://js.foundation/>

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/jquery/sizzle>

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----

This project utilizes Jython 2.7 for running Python code on JVMs. It is available under the Python Software Foundation License v2:

#### PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

-----

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Jython") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Jython alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2007 Python Software Foundation; All Rights Reserved" are retained in

Jython alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Jython or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Jython.

4. PSF is making Jython available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF JYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF JYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING JYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Jython, Licensee agrees to be bound by the terms and conditions of this License Agreement.

## 1.366 guava-listenablefuture-only 9999.0-empty-to-avoid-conflict-with-guava

### 1.366.1 Available under license :

Found license 'GNU Lesser General Public License' in '// This library is free software; you can redistribute it and/or // modify it under the terms of the GNU Lesser General Public // License as published by the Free Software Foundation; either // version 2.1 of the License, or (at your option) any later version. // This library is distributed in the hope that it will be useful, // but WITHOUT ANY WARRANTY; without even the implied warranty of // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU // Lesser General Public License for more details. // You should have received a copy of the GNU Lesser General Public \* This grammar is in the PUBLIC DOMAIN'

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,  
not price. Our General Public Licenses are designed to make sure that  
you have the freedom to distribute copies of free software (and charge  
for this service if you wish); that you receive source code or can get  
it if you want it; that you can change the software and use pieces of  
it in new free programs; and that you are informed that you can do  
these things.

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
rights. These restrictions translate to certain responsibilities for  
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them  
with the library after making changes to the library and recompiling  
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the  
library, and (2) we offer you this license, which gives you legal  
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

## GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for



writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
////////////////////////////////////
// checkstyle: Checks Java source code for adherence to a set of rules.
// Copyright (C) 2001-2020 the original author or authors.
//
// This library is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 2.1 of the License, or (at your option) any later version.
//
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
// Lesser General Public License for more details.
//
// You should have received a copy of the GNU Lesser General Public
// License along with this library; if not, write to the Free Software
// Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
////////////////////////////////////
```

# 1.367 akka-stream 2.5.31

## 1.367.1 Available under license :

This software includes the following components from the Apache Software Foundation, also released under the Apache Software License Version 2.0:

commons-cli-1.1.jar

jakarta-oro-2.0.8.jar



log4j-1.2.15.jar

The following components are covered under different licenses:

jline-0.9.94.jar (LICENSE-JLINE)

One-Jar (LICENSE-ONEJAR)

Java/Tcl v1.3.3 (LICENSE-TCLJAVA,-2,-3,-4)

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.



## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The following license terms apply to the Itcl source and test files located in the src/itcl and tests/itcl directories.

This software is copyrighted by Cadence Design Systems, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

-----  
Following is the original agreement for the Tcl/Tk software from Sun Microsystems.  
-----

This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARS. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

The following license terms apply to the TJC compiler source and test files located in the src/tjc, src/tests/tjc, and tests/tjc directories.

2005 Advanced Micro Devices, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that existing copyright notices are retained in all copies, this notice is included verbatim in any distributions, and the terms and conditions hererin are met.

Use of the this software manifests acceptance of the terms of this license by performance.

The name of Advanced Micro Devices, Inc. may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ADVANCED MICRO DEVICES, INC. "AS IS" AND ANY EXPRESS, IMPLIED OR STATUTORY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, OR THOSE ARISING FROM CUSTOM OF TRADE OR COURSE OF USAGE ARE DISCLAIMED.

IN NO EVENT SHALL ADVANCED MICRO DEVICES, INC. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED, AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE ITS DOCUMENTATION OR ANY DERIVATIVES

THEREOF, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. BY USING THIS SOFTWARE WITHOUT CHARGE, YOU ACCEPT THIS ALLOCATION OF RISK. THIS DISCLAIMER OF LIABILITY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. ADVANCED MICRO DEVICES, INC. HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS OF THIS SOFTWARE.

In the redistribution and use of this software, each party shall at all times comply with all applicable governmental laws, statutes, ordinances, rules, regulations, orders, and other requirements, including without limitation such governmental requirements applicable to environmental protection, health, safety, wages, hours, equal employment opportunity, nondiscrimination, working conditions, import or export control, and transportation. Without limiting the foregoing, each party shall adhere to the U.S. Export Administration Regulations (EAR), currently found at 15 C.F.R. Sections 730 through 744, and, unless properly authorized by the U.S. Government, shall not (1) export, re-export or release restricted technology, software, or source code to a national of a country in Country Groups D:1 or E:1, or (2) export to Country Groups D:1 or E:1 the direct product of such technology or software, if such foreign produced direct product is subject to national security controls as identified on the Commerce Control List (currently found in Supplement 1 to Section 774 of EAR). These export requirements shall survive any expiration or termination of this agreement.

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

-----

Licenses for dependency projects can be found here:  
[<http://akka.io/docs/akka/snapshot/project/licenses.html>]

-----

akka-protobuf contains the sources of Google protobuf 2.5.0 runtime support, moved into the source package `akka.protobuf` so as to avoid version conflicts. For license information see COPYING.protobuf

/\*

\* One-JAR (<http://www.simontuffs.com/one-jar>). Copyright (c) 2004-2007,

\* P. Simon Tuffs ([simon@simontuffs.com](mailto:simon@simontuffs.com)). All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without



\* modification, are permitted provided that the following conditions are met:  
\*  
\* Redistributions of source code must retain the above copyright notice, this  
\* list of conditions and the following disclaimer.  
\*  
\* Redistributions in binary form must reproduce the above copyright notice,  
\* this list of conditions and the following disclaimer in the documentation  
\* and/or other materials provided with the distribution.  
\*  
\* Neither the name of P. Simon Tuffs, nor the names of any contributors,  
\* nor the name One-JAR may be used to endorse or promote products derived  
\* from this software without specific prior written permission.  
\*  
\* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"  
\* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
\* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE  
\* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE  
\* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
\* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
\* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
\* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
\* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
\* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
\* POSSIBILITY OF SUCH DAMAGE.  
\*  
\* Including this file inside the built One-JAR file conforms with these terms.  
\*/

# Licenses

## Akka License

...

This software is licensed under the Apache 2 license, quoted below.

Copyright 2009-2018 Lightbend Inc. <<https://www.lightbend.com>>

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

...

## ## Akka Committer License Agreement

All committers have signed this [CLA](<http://www.lightbend.com/contribute/current-cla>).  
It can be [signed online](<http://www.lightbend.com/contribute/cla>).

## ## Licenses for Dependency Libraries

Each dependency and its license can be seen in the project build file (the comment on the side of each dependency):  
@extref[AkkaBuild.scala](github:project/AkkaBuild.scala#L1054)  
Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions of Jacl and Tcl Blend are

Copyright (c) 1997-1999 The Regents of the University of California.  
All rights reserved.

Permission is hereby granted, without written agreement and without license or royalty fees, to use, copy, modify, and distribute this

software and its documentation for any purpose, provided that the above copyright notice and the following two paragraphs appear in all copies of this software.

IN NO EVENT SHALL THE UNIVERSITY OF CALIFORNIA BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE UNIVERSITY OF CALIFORNIA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE UNIVERSITY OF CALIFORNIA SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE UNIVERSITY OF CALIFORNIA HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

Apache Commons CLI

Copyright 2001-2007 The Apache Software Foundation

This product includes software developed by

The Apache Software Foundation (<http://www.apache.org/>).

The jmxsh library has been obtained from <https://code.google.com/p/jmxsh/> under the Apache License 2.0.

Apache log4j

Copyright 2007 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

Copyright 2008, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

/\* =====

\* The Apache Software License, Version 1.1

\*

\* Copyright (c) 2000-2002 The Apache Software Foundation. All rights reserved.

\*

\* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\*

\* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\*

\* 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\*

\* 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

\* "This product includes software developed by the

\* Apache Software Foundation (<http://www.apache.org/>)."

\* Alternately, this acknowledgment may appear in the software itself,

\* if and wherever such third-party acknowledgments normally appear.

\*

\* 4. The names "Apache" and "Apache Software Foundation", "Jakarta-Oro"

\* must not be used to endorse or promote products derived from this

\* software without prior written permission. For written

\* permission, please contact [apache@apache.org](mailto:apache@apache.org).

\*

\* 5. Products derived from this software may not be called "Apache"

\* or "Jakarta-Oro", nor may "Apache" or "Jakarta-Oro" appear in their

\* name, without prior written permission of the Apache Software Foundation.

\*

\* THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED

\* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

\* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE  
\* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR  
\* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,  
\* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT  
\* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF  
\* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND  
\* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,  
\* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT  
\* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
\* SUCH DAMAGE.

\* =====  
\*

\* This software consists of voluntary contributions made by many  
\* individuals on behalf of the Apache Software Foundation. For more  
\* information on the Apache Software Foundation, please see  
\* <<http://www.apache.org/>>.  
\*/

SUN MICROSYSTEMS, INC. THROUGH ITS SUN MICROSYSTEMS LABORATORIES  
DIVISION ("SUN") WILL LICENSE THIS SOFTWARE AND THE ACCOMPANYING  
DOCUMENTATION TO YOU (a "Licensee") ONLY ON YOUR ACCEPTANCE OF ALL  
THE TERMS SET FORTH BELOW.

Sun grants Licensee a non-exclusive, royalty-free right to download,  
install, compile, use, copy and distribute the Software, modify or  
otherwise create derivative works from the Software (each, a  
"Modification") and distribute any Modification in source code and/or  
binary code form to its customers with a license agreement containing  
these terms and noting that the Software has been modified. The  
Software is copyrighted by Sun and other third parties and Licensee  
shall retain and reproduce all copyright and other notices presently  
on the Software. As between Sun and Licensee, Sun is the sole owner of  
all rights in and to the Software other than the limited rights  
granted to Licensee herein; Licensee will own its Modifications,  
expressly subject to Sun's continuing ownership of the  
Software. Licensee will, at its expense, defend and indemnify Sun and  
its licensors from and against any third party claims, including costs  
and reasonable attorneys' fees, and be wholly responsible for any  
liabilities arising out of or related to Licensee's development, use  
or distribution of the Software or Modifications. Any distribution of  
the Software and Modifications must comply with all applicable United  
States export control laws.

THE SOFTWARE IS BEING PROVIDED TO LICENSEE "AS IS" AND ALL EXPRESS OR  
IMPLIED CONDITIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT,  
ARE DISCLAIMED. IN NO EVENT WILL SUN BE LIABLE HEREUNDER FOR ANY  
DIRECT DAMAGES OR ANY INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL OR  
CONSEQUENTIAL DAMAGES OF ANY KIND.

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each



Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

## 1.368 swagger-integration 2.1.6

### 1.368.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: io.swagger.v3.oas.integration

Bnd-LastModified: 1607101128644

Build-Jdk: 1.8.0\_275

Built-By: runner

Bundle-Description: swagger-integration

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-integration

Bundle-SymbolicName: io.swagger.core.v3.swagger-integration  
Bundle-Version: 2.1.6  
Created-By: Apache Maven Bundle Plugin  
Export-Package: io.swagger.v3.oas.integration;uses:="com.fasterxml.jac  
kson.databind,io.swagger.v3.core.converter,io.swagger.v3.core.util,io  
.swagger.v3.oas.integration.api,io.swagger.v3.oas.models,org.apache.c  
ommons.lang3.tuple,org.slf4j";version="2.1.6",io.swagger.v3.oas.integ  
ration.api;uses:="com.fasterxml.jackson.databind,io.swagger.v3.core.c  
onverter,io.swagger.v3.oas.integration,io.swagger.v3.oas.models";vers  
ion="2.1.6"  
implementation-version: 2.1.6  
Import-Package: com.fasterxml.jackson.annotation;version="[2.11,3)",co  
m.fasterxml.jackson.databind;version="[2.11,3)",com.fasterxml.jackson  
.databind.annotation;version="[2.11,3)",io.github.classgraph;version=  
"[4.8,5)",io.swagger.v3.core.converter;version="[2.1,3)",io.swagger.v  
3.core.jackson;version="[2.1,3)",io.swagger.v3.core.util;version="[2.  
1,3)",io.swagger.v3.oas.annotations;version="[2.1,3)",io.swagger.v3.o  
as.integration,io.swagger.v3.oas.integration.api,io.swagger.v3.oas.mo  
dels;version="[2.1,3)",io.swagger.v3.oas.models.media;version="[2.1,3  
)",org.apache.commons.lang3;version="[3.7,4)",org.apache.commons.lang  
3.tuple;version="[3.7,4)",org.slf4j;version="[1.7,2)"  
mode: development  
package: io.swagger  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-4.2.0.201903051501  
url: [https://github.com/swagger-api/swagger-core/modules/swagger-integ  
ration](https://github.com/swagger-api/swagger-core/modules/swagger-integration)

Found in path(s):

\* /opt/cola/permits/1115978497\_1654757459.531438/0/swagger-integration-2-1-6-jar/META-INF/MANIFEST.MF

## 1.369 io-swagger-swagger-annotations 1.6.2

### 1.369.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Bnd-LastModified: 1593602041104  
Build-Jdk: 1.8.0\_151  
Built-By: frantuma  
Bundle-Description: Sonatype helps open source projects to set up Mave  
n repositories on <https://oss.sonatype.org/>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: swagger-annotations  
Bundle-SymbolicName: io.swagger.annotations  
Bundle-Version: 1.6.2

Created-By: Apache Maven Bundle Plugin  
Export-Package: io.swagger.annotations;version="1.6.2"  
implementation-version: 1.6.2  
mode: development  
package: io.swagger  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.3.0.201609221906  
url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Found in path(s):

\* /opt/cola/permits/1170799104\_1654737045.2729578/0/swagger-annotations-1-6-2-jar/META-INF/MANIFEST.MF

## 1.370 jetty-toolchain 1.0.4

### 1.370.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// All rights reserved. This program and the accompanying materials
// are made available under the terms of the Eclipse Public License v1.0
// and Apache License v2.0 which accompanies this distribution.
// The Eclipse Public License is available at
// The Apache License v2.0 is available at
// You may elect to redistribute this code under either of these licenses.
```

Found in path(s):

\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java

## 1.371 metrics-integration-for-jersey-2.x 4.1.29

### 1.371.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jersey2  
Build-Jdk-Spec: 1.8  
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jersey 2.x  
Bundle-SymbolicName: io.dropwizard.metrics.jersey2  
Bundle-Version: 4.1.29  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.1.29"  
Implementation-Title: Metrics Integration for Jersey 2.x  
Implementation-Version: 4.1.29  
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.35,3)",org.glassfish.jersey.server.model;version="[2.35,3)",org.glassfish.jersey.server.monitoring;version="[2.35,3)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1473592371\_1668798048.010335/0/metrics-jersey2-4-1-29-jar/META-INF/MANIFEST.MF

## 1.372 jackson-jaxrs 2.13.3

### 1.372.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/LICENSE-2.0>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

# 1.373 okhttp 4.9.3

## 1.373.1 Available under license :

Note that publicsuffices.gz is compiled from The Public Suffix List:  
[https://publicsuffix.org/list/public\\_suffix\\_list.dat](https://publicsuffix.org/list/public_suffix_list.dat)

It is subject to the terms of the Mozilla Public License, v. 2.0:  
<https://mozilla.org/MPL/2.0/>

# 1.374 leveldb-api 0.12

## 1.374.1 Available under license :

No license file was found, but licenses were detected in source scan.

/\*

- \* Copyright (C) 2011 the original author or authors.
- \* See the notice.md file distributed with this work for additional
- \* information regarding copyright ownership.
- \*
- \* Licensed under the Apache License, Version 2.0 (the "License");
- \* you may not use this file except in compliance with the License.
- \* You may obtain a copy of the License at
- \*
- \* <http://www.apache.org/licenses/LICENSE-2.0>
- \*
- \* Unless required by applicable law or agreed to in writing, software
- \* distributed under the License is distributed on an "AS IS" BASIS,
- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- \* See the License for the specific language governing permissions and
- \* limitations under the License.
- \*/

Found in path(s):

\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/Options.java

\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/Range.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/DBIterator.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/Logger.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/DBException.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/Snapshot.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/ReadOptions.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/DB.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/DBComparator.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/WriteBatch.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/DBFactory.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/CompressionType.java  
\* /opt/cola/permits/1473592144\_1668494818.0447748/0/leveldb-api-0-12-sources-2-jar/org/iq80/leveldb/WriteOptions.java

# 1.375 okio 2.8.0

## 1.375.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Utf8.kt

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2018 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
*/opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/-
DeprecatedUpgrade.kt
*/opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/-
DeprecatedUtf8.kt
*/opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-
jar/commonMain/okio/PeekSource.kt
*/opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/-
DeprecatedOkio.kt
*/opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Throttler.kt
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/-Base64.kt  
No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2014 Square, Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/SegmentPool.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Sink.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Source.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/BufferedSource.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/BufferedSink.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Buffer.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Timeout.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-

jar/commonMain/okio/SegmentPool.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-

jar/jvmMain/okio/ForwardingSource.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/JvmOkio.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/InflaterSource.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Segment.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/GzipSink.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/DeflaterSink.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/AsyncTimeout.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-

jar/jvmMain/okio/RealBufferedSource.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/ForwardingSink.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/GzipSource.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-

jar/jvmMain/okio/RealBufferedSink.kt

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2015 Square, Inc.

\*



\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/SegmentedByteString.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/ForwardingTimeout.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/SegmentedByteString.kt

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2018 Square, Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/ByteString.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/-Util.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/-Platform.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/-Platform.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/ByteString.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/-Utf8.kt

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2016 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/HashingSink.kt
* /opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/Pipe.kt
* /opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/HashingSource.kt
* /opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Options.kt
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 Square Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1340031362_1654618471.6843367/0/okio-2-8-0-sources-2-jar/jvmMain/okio/ByteString.kt
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2019 Square, Inc.
 *

```

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/SegmentedByteString.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/RealBufferedSink.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/RealBufferedSource.kt

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2019 Square, Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");  
\* you may not use this file except in compliance with the License.  
\* You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Okio.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/internal/Buffer.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/BufferedSource.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/BufferedSink.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Timeout.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Source.kt

\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/RealBufferedSink.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/RealBufferedSource.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Buffer.kt  
\* /opt/cola/permits/1340031362\_1654618471.6843367/0/okio-2-8-0-sources-2-jar/commonMain/okio/Sink.kt

# 1.376 apache-log4j-slf4j-binding 2.17.1

## 1.376.1 Available under license :

Apache Log4j SLF4J Binding  
Copyright 1999-1969 The Apache Software Foundation

This product includes software developed at  
The Apache Software Foundation (<http://www.apache.org/>).

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

# 1.377 fabric8-::-kubernetes-model-::-storage-class 4.10.3

## 1.377.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

```
* /opt/cola/permits/1337069668_1654218635.2626/0/kubernetes-model-storageclass-4-10-3-jar/ValidationMessages.properties
```

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0



Bnd-LastModified: 1594746520780  
Build-Jdk: 14.0.1  
Build-Timestamp: \${build.datetime}  
Built-By: rohaan  
Bundle-Description: Java client for Kubernetes and OpenShift  
Bundle-DocURL: http://redhat.com  
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt  
Bundle-ManifestVersion: 2  
Bundle-Name: Fabric8 :: Kubernetes Model :: Storage Class  
Bundle-SymbolicName: io.fabric8.kubernetes-model-storageclass  
Bundle-Vendor: Red Hat  
Bundle-Version: 4.10.3  
Created-By: Apache Maven Bundle Plugin  
Export-Package: io.fabric8.kubernetes.api.model.storage;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="4.10.3",io.fabric8.kubernetes.api.model.storage.v1beta1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="4.10.3"  
Implementation-Title: Fabric8 :: Kubernetes Model :: Storage Class  
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kubernetes-model-storageclass/  
Implementation-Vendor: Red Hat  
Implementation-Vendor-Id: io.fabric8  
Implementation-Version: 4.10.3  
Import-Package: com.fasterxml.jackson.annotation;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.annotation;version="[2.10,3)",io.fabric8.kubernetes.api.builder;version="[4.10,5)",io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation;version="[4.10,5)"  
Java-Vendor: Oracle Corporation  
Java-Version: 14.0.1  
Os-Arch: amd64  
Os-Name: Linux  
Os-Version: 5.6.19-300.fc32.x86\_64  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git/kubernetes-model-generator/kubernetes-model-storageclass  
Scm-Revision: \${buildNumber}  
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-model-generator/kubernetes-model-storageclass/  
Specification-Title: Fabric8 :: Kubernetes Model :: Storage Class  
Specification-Vendor: Red Hat  
Specification-Version: 4.10.3  
Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1337069668\_1654218635.2626/0/kubernetes-model-storageclass-4-10-3-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

\*

\* Copyright (C) 2015 Red Hat, Inc.

\*

\* Licensed under the Apache License, Version 2.0 (the "License");

\* you may not use this file except in compliance with the License.

\* You may obtain a copy of the License at

\*

\* <http://www.apache.org/licenses/LICENSE-2.0>

\*

\* Unless required by applicable law or agreed to in writing, software

\* distributed under the License is distributed on an "AS IS" BASIS,

\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*

Found in path(s):

\* /opt/cola/permits/1337069668\_1654218635.2626/0/kubernetes-model-storageclass-4-10-3-jar/manifest.vm

No license file was found, but licenses were detected in source scan.

<!--

Copyright (C) 2015 Red Hat, Inc.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

-->

Found in path(s):

\* /opt/cola/permits/1337069668\_1654218635.2626/0/kubernetes-model-storageclass-4-10-3-jar/META-INF/maven/io.fabric8/kubernetes-model-storageclass/pom.xml

# 1.378 micronaut-mongodb 4.1.0

## 1.378.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2017-2020 original authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/StringToServerAddressConverter.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/package-info.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/StringToReadConcernConverter.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/MongoConverterRegistrar.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/convert/StringToWriteConcernConverter.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/MongoSettings.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/test/AbstractMongoProcessFactory.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/DefaultMongoConfiguration.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/NamedMongoConfiguration.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/AbstractMongoConfiguration.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/test/MongoProcessFactory.java
* /opt/cola/permits/1331473860_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-
jar/io/micronaut/configuration/mongo/core/DefaultMongoClientSettingsFactory.java
```

\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/convert/StringToReadPreferenceConverter.java

# 1.379 java-servlet-api 4.0.4

## 1.379.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

Copyright (c) 1997, 2018 Oracle and/or its affiliates. All rights reserved.

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0, which is available at <http://www.eclipse.org/legal/epl-2.0>.

This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception, which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

<![CDATA[

Comments to: [servlet-dev@eclipse.org](mailto:servlet-dev@eclipse.org).<br>

Copyright © 1997; 2019 Eclipse Foundation. All rights reserved.<br>

Use is subject to [license terms]({@docRoot}/doc-files/speclicense.html).]]>

Found in path(s):

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/META-INF/maven/jakarta.servlet/jakarta.servlet-api/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-License: <http://www.eclipse.org/legal/epl-2.0>, <https://www.gnu.org/software/classpath/license.html>

Bundle-SymbolicName: jakarta.servlet-api

Archiver-Version: Plexus Archiver

Built-By: default

Bnd-LastModified: 1592488669617

Implementation-Vendor-Id: org.eclipse

Bundle-DocURL: <https://www.eclipse.org>

Import-Package: javax.servlet,javax.servlet.annotation,javax.servlet.descriptor

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Export-Package: javax.servlet;uses:="javax.servlet.annotation,javax.serv  
rlet.descriptor";version="4.0.0",javax.servlet.annotation;uses:="jav  
ax.servlet";version="4.0.0",javax.servlet.descriptor;version="4.0.0",  
javax.servlet.http;uses:="javax.servlet";version="4.0.0"

Bundle-Name: Jakarta Servlet

Extension-Name: javax.servlet

Bundle-Description: Jakarta Servlet 4.0

Automatic-Module-Name: java.servlet

Implementation-Version: 4.0.4

Bundle-ManifestVersion: 2

Specification-Vendor: Eclipse Foundation

Bundle-Vendor: Eclipse Foundation

Tool: Bnd-4.0.0.201805111645

Implementation-Vendor: Eclipse Foundation

Bundle-Version: 4.0.0

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_202

Specification-Version: 4.0

Found in path(s):

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/META-  
INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<!--

Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights reserved.

This program and the accompanying materials are made available under the  
terms of the Eclipse Public License v. 2.0, which is available at  
<http://www.eclipse.org/legal/epl-2.0>.

This Source Code may also be made available under the following Secondary  
Licenses when the conditions for such availability set forth in the  
Eclipse Public License v. 2.0 are satisfied: GNU General Public License,  
version 2 with the GNU Classpath Exception, which is available at  
<https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

Found in path(s):

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-  
jar/javax/servlet/descriptor/package.html

No license file was found, but licenses were detected in source scan.

<!--

Copyright (c) 2008, 2018 Oracle and/or its affiliates. All rights reserved.

This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0, which is available at <http://www.eclipse.org/legal/epl-2.0>.

This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception, which is available at <https://www.gnu.org/software/classpath/license.html>.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

Found in path(s):

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/annotation/package.html

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/annotation/ServletSecurity\$TransportGuarantee.class: binary file matches

Found in path(s):

\* /bin/grep

No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.

# Licensed under the Apache License, Version 2.0 (the "License");

# you may not use this file except in compliance with the License.

# You may obtain a copy of the License at

# <http://www.apache.org/licenses/LICENSE-2.0>

# distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/http/LocalStrings\_ja.properties

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/http/LocalStrings.properties

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/http/LocalStrings\_fr.properties

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/LocalStrings\_ja.properties

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/http/LocalStrings\_es.properties

\* /opt/cola/permits/1473592191\_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-

```
jar/javax/servlet/LocalStrings.properties
* /opt/cola/permits/1473592191_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-
jar/javax/servlet/LocalStrings_fr.properties
No license file was found, but licenses were detected in source scan.
```

<!--

Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.  
Copyright 2004 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
See the License for the specific language governing permissions and  
limitations under the License.

-->

Found in path(s):

```
* /opt/cola/permits/1473592191_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-
jar/javax/servlet/http/package.html
* /opt/cola/permits/1473592191_1668494743.5916002/0/jakarta-servlet-api-4-0-4-2-jar/javax/servlet/package.html
```

# 1.380 netty-project 4.1.76.Final

## 1.380.1 Available under license :

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person  
obtaining a copy of this software and associated documentation  
files (the "Software"), to deal in the Software without  
restriction, including without limitation the rights to use,  
copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the  
Software is furnished to do so, subject to the following  
conditions:

The above copyright notice and this permission notice shall be  
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicator holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuity of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all



other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,



WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.  
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

/\*

\* Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.

\*

\* @APPLE\_LICENSE\_HEADER\_START@

\*

\* This file contains Original Code and/or Modifications of Original Code

\* as defined in and that are subject to the Apple Public Source License

\* Version 2.0 (the 'License'). You may not use this file except in

\* compliance with the License. Please obtain a copy of the License at

\* <https://www.opensource.apple.com/apsl/> and read it before using this

\* file.

\*

\* The Original Code and all software distributed under the License are

\* distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER

\* EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,

\* INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,

\* FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.

\* Please see the License for the specific language governing rights and

\* limitations under the License.

\*

\* @APPLE\_LICENSE\_HEADER\_END@

\*/

The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2011, Google Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are

met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The person or persons who have associated work with this document (the "Dedicator" or "Certifier") hereby either (a) certifies that, to the best of his knowledge, the work of authorship identified is in the public domain of the country from which the work is published, or (b) hereby dedicates whatever copyright the dedicators holds in the work of authorship identified below (the "Work") to the public domain. A certifier, moreover, dedicates any copyright

interest he may have in the associated work, and for these purposes, is described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this work. Certifier recognizes that his good faith efforts may not shield him from liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to the detriment of the Dedicator's heirs and successors. Dedicator intends this dedication to be an overt act of relinquishment in perpetuate of all present and future rights under copyright law, whether vested or contingent, in the Work. Dedicator understands that such relinquishment of all rights includes the relinquishment of all rights to enforce (by lawsuit or otherwise) those copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be freely reproduced, distributed, transmitted, used, modified, built upon, or otherwise exploited by anyone for any purpose, commercial or non-commercial, and in any way, including by methods that have not yet been invented or conceived.

Apache License  
Version 2.0, January 2004  
<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,



use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa  
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.

(<https://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

<https://www.apache.org/licenses/>

## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
  
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

(BSD License: <https://www.opensource.org/licenses/bsd-license>)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.



\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of the Webbit nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,

EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/\*

\* Copyright (c) 2004-2007 QOS.ch

\* All rights reserved.

\*

\* Permission is hereby granted, free of charge, to any person obtaining

\* a copy of this software and associated documentation files (the

\* "Software"), to deal in the Software without restriction, including

\* without limitation the rights to use, copy, modify, merge, publish,

\* distribute, sublicense, and/or sell copies of the Software, and to

\* permit persons to whom the Software is furnished to do so, subject to

\* the following conditions:

\*

\* The above copyright notice and this permission notice shall be

\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

\* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

\* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

\* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*/

The Netty Project

=====

Please visit the Netty web site for more information:

\* <https://netty.io/>

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at:

<https://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the

components that this product depends on.

-----  
This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

\* LICENSE:

\* license/LICENSE.jsr166y.txt (Public Domain)

\* HOMEPAGE:

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>

\* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

\* LICENSE:

\* license/LICENSE.base64.txt (Public Domain)

\* HOMEPAGE:

\* <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

\* LICENSE:

\* license/LICENSE.webbit.txt (BSD License)

\* HOMEPAGE:

\* <https://github.com/joewalnes/webbit>

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

\* LICENSE:

\* license/LICENSE.slf4j.txt (MIT License)

\* HOMEPAGE:

\* <https://www.slf4j.org/>

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

\* NOTICE:

\* license/NOTICE.harmony.txt

\* LICENSE:

\* license/LICENSE.harmony.txt (Apache License 2.0)

\* HOMEPAGE:

\* <https://archive.apache.org/dist/harmony/>

This product contains a modified portion of 'jzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

- \* LICENSE:
- \* license/LICENSE.jbzip2.txt (MIT License)
- \* HOMEPAGE:
- \* <https://code.google.com/p/jbzip2/>

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

- \* LICENSE:
- \* license/LICENSE.libdivsufsort.txt (MIT License)
- \* HOMEPAGE:
- \* <https://github.com/y-256/libdivsufsort>

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

- \* LICENSE:
- \* license/LICENSE.jctools.txt (ASL2 License)
- \* HOMEPAGE:
- \* <https://github.com/JCTools/JCTools>

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

- \* LICENSE:
- \* license/LICENSE.jzlib.txt (BSD style License)
- \* HOMEPAGE:
- \* <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

- \* LICENSE:
- \* license/LICENSE.compress-lzf.txt (Apache License 2.0)
- \* HOMEPAGE:
- \* <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

- \* LICENSE:
- \* license/LICENSE.lz4.txt (Apache License 2.0)
- \* HOMEPAGE:
- \* <https://github.com/jpountz/lz4-java>

This product optionally depends on 'lzma-java', a LZMA Java compression

and decompression library, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.lzma-java.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/jponge/lzma-java>

This product optionally depends on 'zstd-jni', a zstd-jni Java compression and decompression library, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.zstd-jni.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/luben/zstd-jni>

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jfastlz.txt (MIT License)
- \* HOMEPAGE:
  - \* <https://code.google.com/p/jfastlz/>

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.protobuf.txt (New BSD License)
- \* HOMEPAGE:
  - \* <https://github.com/google/protobuf>

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the equivalent functionality. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.bouncycastle.txt (MIT License)
- \* HOMEPAGE:
  - \* <https://www.bouncycastle.org/>

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.snappy.txt (New BSD License)
- \* HOMEPAGE:
  - \* <https://github.com/google/snappy>

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/jboss-remoting/jboss-marshalling>

This product optionally depends on 'Caliper', Google's micro-benchmarking framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.caliper.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/google/caliper>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.commons-logging.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.log4j.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://logging.apache.org/log4j/>

This product optionally depends on 'Aalto XML', an ultra-high performance non-blocking XML processor, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.aalto-xml.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://wiki.fasterxml.com/AaltoHome>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.hpack.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/twitter/hpack>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.hyper-hpack.txt (MIT License)
- \* HOMEPAGE:
  - \* <https://github.com/python-hyper/hpack/>

This product contains a modified version of 'HPACK', a Java implementation of the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.nghttp2-hpack.txt (MIT License)
- \* HOMEPAGE:
  - \* <https://github.com/nghttp2/nghttp2/>

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.commons-lang.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://commons.apache.org/proper/commons-lang/>

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user has everything necessary to run the Maven build.

- \* LICENSE:
  - \* license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/takari/maven-wrapper>

This product contains the dnsinfo.h header file, that provides a way to retrieve the system DNS configuration on MacOS.

This private header is also used by Apple's open source mDNSResponder (<https://opensource.apple.com/tarballs/mDNSResponder/>).

- \* LICENSE:
  - \* license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
- \* HOMEPAGE:
  - \* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

This product optionally depends on 'Brotli4j', Brotli compression and decompression for Java., which can be obtained at:

- \* LICENSE:
  - \* license/LICENSE.brotli4j.txt (Apache License 2.0)

\* HOMEPAGE:

\* <https://github.com/hyperxpro/Brotli4j>

Protocol Buffers - Google's data interchange format

Copyright 2013 Google Inc. All rights reserved.

<https://developers.google.com/protocol-buffers/>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

\* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

\* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

This copy of Aalto XML processor is licensed under the Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the specific rights regarding derivative works.

You may obtain a copy of the License at:

<https://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution



the location should be "release-notes/asl"; and in jar "META-INF/"  
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at  
The Apache Software Foundation (<https://www.apache.org/>).

## 1.381 asm-analysis 7.2

### 1.381.1 Available under license :

<OWNER> = Regents of the University of California  
<ORGANIZATION> = University of California, Berkeley  
<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

# 1.382 findbugs-jsr305 3.0.2

## 1.382.1 Available under license :

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

### 1. Definitions

1. "Collective Work" means a work, such as a periodical issue, anthology or encyclopedia, in which the Work in its entirety in unmodified form, along with a number of other contributions, constituting separate and independent works in themselves, are assembled into a collective whole. A work that constitutes a Collective Work will not be considered a Derivative Work (as defined below) for the purposes of this License.

2. "Derivative Work" means a work based upon the Work or upon the Work and other pre-existing works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which the Work may be recast, transformed, or adapted, except that a work that constitutes a Collective Work will not be considered a Derivative Work for the purpose of this License. For the avoidance of doubt, where the Work is a musical composition or sound recording, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered a Derivative Work for the purpose of this License.

3. "Licensor" means the individual or entity that offers the Work under the terms of this License.

4. "Original Author" means the individual or entity who created the Work.

5. "Work" means the copyrightable work of authorship offered under the terms of this License.

6. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or restrict any rights arising from fair use, first sale or other limitations on the exclusive rights of the copyright owner under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in

the Work as stated below:

1. to reproduce the Work, to incorporate the Work into one or more Collective Works, and to reproduce the Work as incorporated in the Collective Works;
2. to create and reproduce Derivative Works;
3. to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission the Work including as incorporated in Collective Works;
4. to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission Derivative Works.
- 5.

For the avoidance of doubt, where the work is a musical composition:

1. Performance Royalties Under Blanket Licenses. Licensor waives the exclusive right to collect, whether individually or via a performance rights society (e.g. ASCAP, BMI, SESAC), royalties for the public performance or public digital performance (e.g. webcast) of the Work.

2. Mechanical Rights and Statutory Royalties. Licensor waives the exclusive right to collect, whether individually or via a music rights agency or designated agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from the Work ("cover version") and distribute, subject to the compulsory license created by 17 USC Section 115 of the US Copyright Act (or the equivalent in other jurisdictions).

6. Webcasting Rights and Statutory Royalties. For the avoidance of doubt, where the Work is a sound recording, Licensor waives the exclusive right to collect, whether individually or via a performance-rights society (e.g. SoundExchange), royalties for the public digital performance (e.g. webcast) of the Work, subject to the compulsory license created by 17 USC Section 114 of the US Copyright Act (or the equivalent in other jurisdictions).

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

1. You may distribute, publicly display, publicly perform, or publicly digitally perform the Work only under the terms of this License, and You must include a copy of, or the Uniform Resource Identifier for, this License with every copy or phonorecord of the Work You distribute, publicly display, publicly perform, or publicly digitally perform. You may not offer or impose any terms on the Work that alter or restrict the terms of this License or the recipients' exercise of the rights granted hereunder. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties. You may not distribute, publicly display, publicly perform, or publicly digitally perform the Work with any technological measures that control access or use of the Work in a manner inconsistent with the terms of this License Agreement. The above applies to the Work as incorporated in a Collective Work, but this does not require the Collective Work apart from the Work itself to be made subject to the terms of this License. If You create a Collective Work, upon notice from any Licensor You must, to the extent practicable, remove from the Collective Work any credit as required by clause 4(b), as requested. If You create a Derivative Work, upon notice from any Licensor You must, to the extent practicable, remove from the Derivative Work any credit as required by clause 4(b), as requested.

2. If you distribute, publicly display, publicly perform, or publicly digitally perform the Work or any Derivative Works or Collective Works, You must keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or (ii) if the Original Author and/or Licensor designate another party or parties (e.g. a sponsor institute,

publishing entity, journal) for attribution in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; the title of the Work if supplied; to the extent reasonably practicable, the Uniform Resource Identifier, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and in the case of a Derivative Work, a credit identifying the use of the Work in the Derivative Work (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). Such credit may be implemented in any reasonable manner; provided, however, that in the case of a Derivative Work or Collective Work, at a minimum such credit will appear where any other comparable authorship credit appears and in a manner at least as prominent as such other comparable authorship credit.

## 5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. Termination

1. This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Derivative Works or Collective Works from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

2. Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

## 8. Miscellaneous

1. Each time You distribute or publicly digitally perform the Work or a Collective Work, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

2. Each time You distribute or publicly digitally perform a Derivative Work, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

3. If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this

agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

4. No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

5. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

## 1.383 argparse 0.8.1

### 1.383.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2011 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
```

Found in path(s):

```
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
```

jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedArgumentException.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/annotation/Arg.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/Arguments.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparsers.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ReflectHelper.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Namespace.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/ArgumentParsers.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Argument.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-

jar/net/sourceforge/argparse4j/inf/FeatureControl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparser.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/FileVerification.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextHelper.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/EnumArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ParseState.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java  
No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2015 Andrew January

\*

\* Permission is hereby granted, free of charge, to any person  
\* obtaining a copy of this software and associated documentation  
\* files (the "Software"), to deal in the Software without  
\* restriction, including without limitation the rights to use, copy,  
\* modify, merge, publish, distribute, sublicense, and/or sell copies  
\* of the Software, and to permit persons to whom the Software is  
\* furnished to do so, subject to the following conditions:

\*

\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS  
\* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN  
\* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
\* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
\* SOFTWARE.  
\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumStringArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumNameArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java  
No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2015 Tatsuhiro Tsujikawa

\*

\* Permission is hereby granted, free of charge, to any person  
\* obtaining a copy of this software and associated documentation  
\* files (the "Software"), to deal in the Software without  
\* restriction, including without limitation the rights to use, copy,  
\* modify, merge, publish, distribute, sublicense, and/or sell copies  
\* of the Software, and to permit persons to whom the Software is  
\* furnished to do so, subject to the following conditions:

\*

\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS  
\* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN  
\* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
\* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
\* SOFTWARE.

\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/MetavarInference.java



No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements. See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership. The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
 * "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing,
 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

```
*/opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/type/FileArgumentType.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2013 Adam Parkin
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
```

\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/helper/HelpScreenException.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2013 Tatsuhiro Tsujikawa

\*

\* Permission is hereby granted, free of charge, to any person

\* obtaining a copy of this software and associated documentation

\* files (the "Software"), to deal in the Software without

\* restriction, including without limitation the rights to use, copy,

\* modify, merge, publish, distribute, sublicense, and/or sell copies

\* of the Software, and to permit persons to whom the Software is

\* furnished to do so, subject to the following conditions:

\*

\* The above copyright notice and this permission notice shall be

\* included in all copies or substantial portions of the Software.

\*

\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS

\* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN

\* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN

\* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

\* SOFTWARE.

\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java

No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C) 2012 Tatsuhiro Tsujikawa

\*

\* Permission is hereby granted, free of charge, to any person

\* obtaining a copy of this software and associated documentation

\* files (the "Software"), to deal in the Software without

\* restriction, including without limitation the rights to use, copy,

\* modify, merge, publish, distribute, sublicense, and/or sell copies

\* of the Software, and to permit persons to whom the Software is

\* furnished to do so, subject to the following conditions:

\*  
\* The above copyright notice and this permission notice shall be  
\* included in all copies or substantial portions of the Software.  
\*  
\* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
\* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
\* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
\* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS  
\* BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN  
\* ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
\* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
\* SOFTWARE.  
\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/MutuallyExclusiveGroup.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* Licensed to the Apache Software Foundation (ASF) under one or more  
\* contributor license agreements. See the NOTICE file distributed with  
\* this work for additional information regarding copyright ownership.  
\* The ASF licenses this file to You under the Apache License, Version 2.0  
\* (the "License"); you may not use this file except in compliance with  
\* the License. You may obtain a copy of the License at  
\*  
\* <http://www.apache.org/licenses/LICENSE-2.0>  
\*  
\* Unless required by applicable law or agreed to in writing, software  
\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/TerminalWidth.java

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2023 Cisco Systems, Inc. All rights reserved.